Natural Gas Monthly December 1998

Energy Information Administration

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Preface

The *Natural Gas Monthly (NGM)* is prepared in the Natural Gas Division, Office of Oil and Gas, Energy Information Administration (EIA), U.S. Department of Energy (DOE), under the direction of Joan E. Heinkel.

General questions and comments regarding the *NGM* may be referred to Ann M. Ducca (202) 586-6137. Specific technical questions may be referred to the appropriate persons listed in Appendix E.

The *NGM* highlights activities, events, and analyses of interest to public and private sector organizations associated with the natural gas industry. Volume and price data are presented each month for natural gas production, distribution, consumption, and interstate pipeline activities. Producer-related activities and underground storage data are also reported. From time to time, the *NGM* features articles designed to assist readers in using and interpreting natural gas information.

The data in this publication are collected on surveys conducted by the EIA to fulfill its responsibilities for gathering and reporting energy data. Some of the data are collected under the authority of the Federal Energy Regulatory Commission (FERC), an independent commission within the DOE, which has jurisdiction primarily in the regulation of electric utilities and the interstate natural gas industry. Geographic coverage is the 50 States and the District of Columbia.

Explanatory Notes supplement the information found in tables of the report. A description of the data collection surveys that support the *NGM* is provided in the Data Sources section. A glossary of the terms used in this report is also provided to assist readers in understanding the data presented in this publication.

All natural gas volumes are reported at a pressure base of 14.73 pounds per square inch absolute (psia) and at 60 degrees Fahrenheit. Cubic feet are converted to cubic meters by applying a factor of 0.02831685.

Common Abbreviations Used in the Natural Gas Monthly

AGA	American Gas Association	IOGCC	Interstate Oil and Gas Compact Commission
Bbl	Barrels	LNG	Liquefied Natural Gas
BLS	Bureau of Labor Statistics, U.S. Department of Labor	Mcf	Thousand Cubic Feet
Bcf	Billion Cubic Feet	MMBtu	Million British Thermal Units
BOM	Bureau of Mines, U.S. Department of the	MMcf	Million Cubic Feet
D:	Interior	MMS	United States Minerals Management
Btu	British Thermal Unit		Service, U.S. Department of the Interior
DOE	U.S. Department of Energy	NGL	Natural Gas Liquids
DOI	U.S. Department of the Interior	OCS	Outer Continental Shelf
EIA	Energy Information Administration, U.S. Department of Energy	STIFS	Short-Term Integrated Forecasting System
FERC	Federal Energy Regulatory Commission	STEO	Short Term Energy Outlook
		Tcf	Trillion Cubic Feet

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Highights

Overview

In this issue of the *Natural Gas Monthly*, preliminary estimates are available for the full year 1998 at the national level for natural gas production, storage, imports, and end-use consumption in most sectors. Highlights of the data contained in this issue are:

- End-use consumption of natural gas in 1998 is estimated to be 19.4 trillion cubic feet, 3 percent lower than the record-breaking level set in 1997.
- Warmer-than-normal temperatures early in the 1998-99 heating season (November through March) have resulted in lower demand for natural gas and higher amounts of working gas left in storage. Working gas is estimated to be 2.8 trillion cubic feet at the end of December 1998, a level not seen since the end of 1991.
- Dry natural gas production in 1998 is estimated to be 18.9 trillion cubic feet, essentially the same as in 1997 and nearly 1 percent more than in 1996.
- Ample supplies have contributed to generally lower natural gas prices both at the wellhead and for the end-use sectors in 1998. The cumulative average wellhead price for the first three quarters of 1998 is estimated to be \$1.90 per thousand cubic feet, 14 percent lower than in 1997.

Supply

The 1998-99 heating season began with 3,172 billion cubic feet of working gas reported in underground storage facilities (Table 10), the highest initial level for a heating season since 1992. There were 8 percent fewer heating degree days than normal (Table 26) during November 1998, leading to lower-than-expected demand for natural gas for space heating during the month. Net storage withdrawals during November 1998 are estimated to be very small, only 20 billion cubic feet, 89 percent lower than in November 1997 when the weather was colder than normal. In December 1998, the average temperature for the month continued to be warmer than normal, and net withdrawals are estimated to be 320 billion cubic feet. This lower demand, together with production levels comparable to last year, resulted in more than 2,832 billion cubic feet of working gas remaining in storage at the end of 1998. The last time that working gas was near this level at the end of December was in 1991 when it reached 2,824 billion cubic feet.

Natural gas production in 1998 is estimated to be 18,949 billion cubic feet, essentially the same as the 1997 level of 18,902 billion cubic feet and about 1 percent more than the 1996 level (Figure HI1 and Table 1). Production in December 1998 is estimated to be 1,622 billion cubic feet, or 52.3 billion cubic feet per day. This daily rate is about the same as during the previous month but 3 percent higher than in December 1997.

During 1998, estimates of net imports of natural gas were higher than the volumes reported for last year. The increase was greater in the latter half of the year compared with earlier months. Cumulatively from January through June, net imports in 1998 were 3 percent above those in 1997, while from July to December, they were 8 percent higher. Net imports during December 1998 are estimated to be 261 billion cubic feet, or 8.4 billion cubic feet per day (Table 2). This level is 6 percent higher than the daily rate during December 1997.

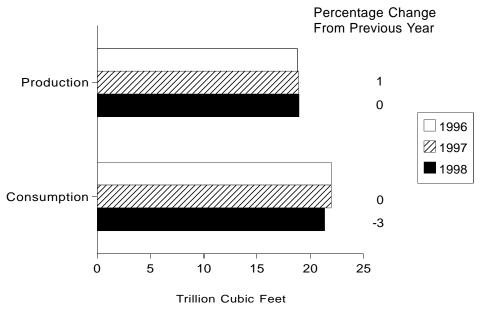
End-Use Consumption

End-use natural gas consumption is estimated to be 19,391 billion cubic feet in 1998. This level is 3 percent lower than in 1997, but consumption in both 1997 and 1996 had set all-time records at just over 20,000 billion cubic feet. The largest decline in natural gas consumption during 1998, in both quantity and percentage terms, occurred in the residential sector. Temperatures during the heating season months (January, February, March, November, and December) were generally warmer in 1998 than in 1997, reducing the demand for natural gas by residential consumers to meet space heating needs. Residential consumption of natural gas in 1998 is estimated to be 4,556 billion cubic feet, 428 billion cubic feet (9 percent) lower than in 1997 (Figure HI3 and Table 3).

The industrial sector saw the second-largest drop in natural gas consumption between 1997 and 1998, falling by 350 billion cubic feet (4 percent) to an estimated 8,493 billion cubic feet. In the commercial sector, consumption fell by 144 billion cubic feet (4 percent) in 1998 to 3,079 billion cubic feet. Warmer weather also played a role in the decline in this sector.

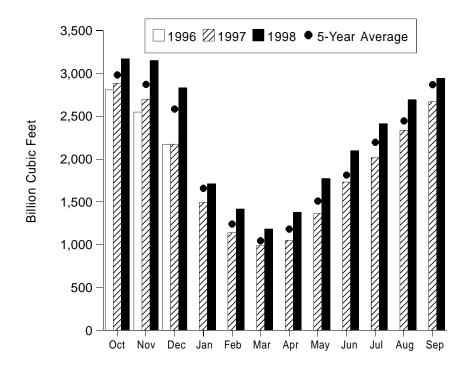
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Figure HI1. Natural Gas Production and Consumption, January-December, 1996-1998



Source: Table 2.

Figure HI2. Working Gas in Underground Storage in the United States, 1996-1998



Note: The 5-year average is calculated using the latest available monthly data. For example, the December average is calculated from December storage levels for 1993 to 1997 while the January average is calculated from January levels for 1994 to 1998. Data are reported as of the end of the month, thus October data represent the beginning of the heating season.

Sources: Form EIA-191, "Underground Natural Gas Storage Report," Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and Short-Term Integrated Forecasting System.

Monthly estimates of natural gas consumption by electric utilities are available through September 1998. Cumulatively for the first three quarters of the year, electric utility consumption of natural gas is 301 billion cubic feet (13 percent) higher than for the same period in 1997. Exceedingly hot temperatures in the Southwest during the summer boosted the demand for electric-powered air conditioning and much of this peak demand was met by natural gas.

Prices

Average natural gas prices for the first three quarters of 1998 (through August for electric utilities) are estimated to be lower than those of 1997 at the wellhead, the city gate, and for the end-use customer classes (Figure HI4)¹. Cumulatively for January through September, the national average wellhead price is estimated to be \$1.90 per thousand cubic feet in 1998, 14 percent below that of 1997 (Table 4). For natural gas delivered to the city gate, the cumulative average price is estimated to be \$3.15 per thousand cubic feet, 11 percent below that of 1997 for the same period. Cumulative average prices declined in all the end-use sectors between 1997 and 1998. The estimated price declines are 1 percent for the residential sector, 4 percent for the commercial sector, and 9 percent for the industrial sector. In the electric utility sector, the

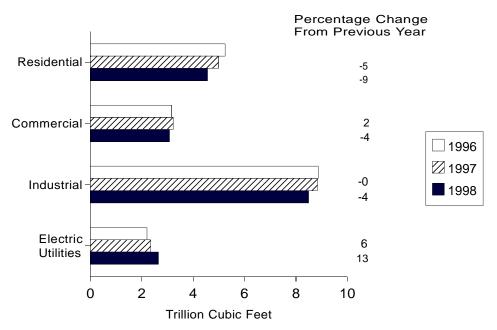
average price paid for natural gas is estimated to be \$2.44 for January through August 1998, 6 percent lower than the 1997 average.

Ample supplies and warmer-than-normal weather from mid-November through early December 1998 have prevented the sharp rise in both natural gas spot and futures prices at the Henry Hub that typically occurs early in the heating season. Both spot and futures prices have been below \$3.00 per million Btu from November 2 through December 24, 1998 (Figure HI5). The highest futures settlement price during this period was \$2.553 per million Btu on November 5 and 6 (for the December contract), while the lowest was \$1.840 on December 10 (for the January contract). The daily average spot price actually plunged to \$1.01 per million Btu by December 4, having reached a high for the period of \$2.34 on November 11. In contrast, the futures settlement price in late 1996 rose from roughly \$2.600 per million Btu in early November to a peak of \$4.573 on December 20. The futures price was above \$3.00 from mid-November through late December in 1996.

The pattern of futures prices in the second half of 1997 was unusual in that coal supply problems in the Southwest spurred demand for natural gas causing futures prices to rise above \$3.00 per million Btu in late September. The futures price generally declined in both November and December 1997. Futures prices in late 1998 are below those of 1997.

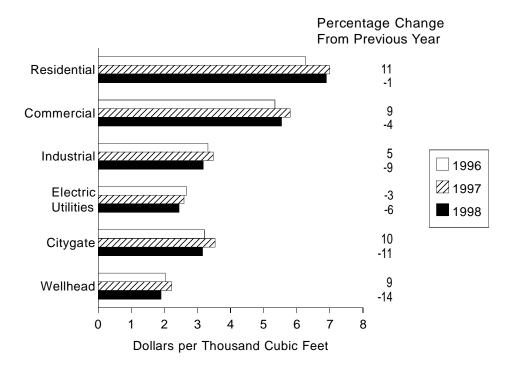
¹End-use prices in the residential, commercial, and industrial sectors are for onsystem gas sales only. While monthly onsystem sales are nearly 100 percent of residential deliveries, in 1998 they have been from 47 to 72 percent of commercial deliveries and only 13 to 17 percent of industrial deliveries (Table 4).

Figure HI3. Natural Gas Delivered to Consumers, January-December, 1996-1998



Note: The reporting of electric utility deliveries is 3 months behind the reporting of other deliveries. Source: Table 3.

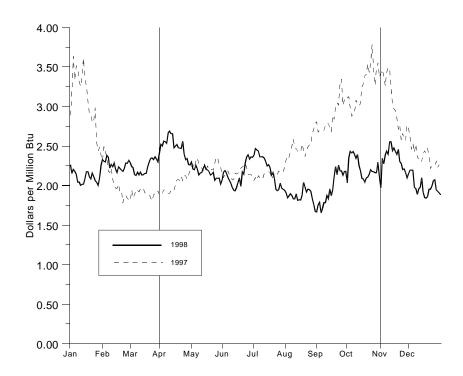
Figure HI4. Average Delivered and Wellhead Natural Gas Prices, January-September 1996-1998



Note: Commercial and industrial average prices reflect onsystem sales only. The reporting of electric utility prices is 1 month behind the reporting of other prices..

Source: Table 4.

Figure HI5. Daily Futures Settlement Prices at the Henry Hub



Note: The futures price is for the nearby month contract, that is, for the next contract to terminate trading. Contracts are traded on the New York Mercantile Exchange. April 1 is the beginning of the natural gas storage refill season. November 1 is the beginning of the heating season.

Source: Commodity Futures Trading Commission, Division of Economic Analysis.

Table 1. Summary of Natural Gas Production in the United States, 1992-1998 (Billion Cubic Feet)

Year and Month	Gross Withdrawals	Repressuring	Nonhydrocarbon Gases Removed ^a	Vented and Flared	Marketed Production (Wet)	Extraction Loss ^b	Dry Gas Production ^c
1992 Total	22,132	2,973	280	168	18,712	872	17,840
1993 Total	22,726	3,103	414	227	18,982	886	18,095
1994 Total	23.581	3,231	412	228	19.710	889	18,821
1995 Total	23,744	3,565	388	284	19,506	908	18,599
1996							
	2.052	310	44	26	1 672	01	1 501
January	,				1,673	81	1,591
February	1,941	294	41	24	1,580	77	1,504
March	2,054	313	45	23	1,674	81	1,592
April	2,003	289	42	22	1,650	80	1,570
May	2,025	281	42	23	1,679	81	1,598
June	1,962	276	36	16	1,634	79	1,555
July	2,008	271	42	24	1,672	81	1,591
August	2,021	281	45	24	1,671	81	1,590
	1,958	283	44	22	1,609	78	1,531
September	,				,		,
October	2,011	306	44	23	1,638	79	1,558
November	1,984	299	47	23	1,615	78	1,537
December	2,032	307	46	23	1,656	80	1,576
Total	24,052	3,510	518	272	19,751	958	18,793
1997							
January	2,089	305	50	25	1,709	83	1,626
February	1,905	289	46	22	1,549	75	1,474
March	2.103	311	51	23	1,720	83	1,636
	,				, -		,
April	1,993	285	48	22	1,639	80	1,559
May	2,041	268	50	22	1,702	83	1,619
June	1,952	275	47	18	1,612	78	1,534
July	2,020	272	51	23	1,674	81	1,593
August	2,022	279	52	21	1,671	81	1,590
September	1,988	285	50	21	1,632	79	1,553
October	2,057	307	51	20	1,678	81	1,597
November	1,999	302	52	19	1,626	79	1,547
December	2,044	314	52	22	1,655	80	1,575
Total	24,213	3,492	599	256	19,866	964	18,902
1998							
January	E2,096	E331	[€] 46	E22	E1,697	[€] 82	E1,615
February	E1,913	E293	E42	E19	[€] 1,560	€76	E1.484
March	[€] 2,086	E320	E45	E22	[€] 1,699	^E 82	E1,617
	2,000 RE1.998	RE306	^E 44	RE 21	RE1.628	E79	RE1.549
April	RE 2.061						
May		RE317	^E 43	E20	RE1,681	RE82	RE1,599
June	^{RE} 1,996	RE294	^E 44	E22	RE1,637	^E 79	RE1,557
July	^{RE} 2,029	^{RE} 295	RE45	RE24	^{RE} 1,665	^E 81	^{RE} 1,585
August	^{RE} 2,048	^{RE} 296	RE45	RE23	^{RE} 1,684	[€] 82	E1,603
September	^{RE} 1,997	RE291	RE44	RE22	[€] 1,640	E 80	E1,560
October	E2.037	E296	^E 45	E23	E1,673	E81	E1.592
November(STIFS)	NA NA	NA DO	NA IO	NA ZO	E1,647	E80	E1.567
December(STIFS)	NA	NA	NA	NA	E1,705	E83	E1,622
Total	NA	NA	NA	NA	E19,916	[€] 966	E18,949

^a See Appendix A, Explanatory Note 1, for a discussion of data on Nonhydrocarbon Gases Removed.

Notes: Data for 1992 through 1996 are final. All other data are preliminary unless otherwise indicated and contain estimates for selected States (see Table 7). Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Sources: 1992-1996: Energy Information Administration (EIA), *Natural Gas Annual 1996*. January 1997 through current month: Form EIA-895, "Monthly Quantity of Natural Gas Report," STIFS, and EIA estimates. See Appendix A, Explanatory Notes 1, 3, and 6, for discussion of computation and estimation

procedures and revision policies.

b Extraction loss is only collected on an annual basis. Annually it is between 4 and 5 percent of marketed production. Monthly extraction loss is estimated from monthly marketed production by assuming that the preceding annual percentage remains constant for the next twelve months.

^c Equal to marketed production (wet) minus extraction loss.

^e = Estimated Data.

RE = Revised Estimated Data.

NA = Not Available.

Table 2. Supply and Disposition of Dry Natural Gas in the United States, 1992-1998 (Billion Cubic Feet)

Year and Month	Dry Gas Production	Supplemental Gaseous Fuels ^a	Net Imports	Net Storage Withdrawals ^b	Balancing Item ^c	Consumption
1992 Total	17,840	118	1,921	173	-508	19,544
1993 Total	18.095	119	2.210	-36	-110	20,279
1994 Total	-,	111	2,462	-286	-400	20,708
1995 Total	18,821 18.599	110	2,462	-200 415	-230	21,581
	,,,,,,		,			,
1996 January	1.591	12	249	723	-2	2.574
	1,504	11	221	462	138	2,374
February	,					,
March	1,592	11	226	333	46	2,209
April	1,570	9	227	-119	139	1,826
May	1,598	6	244	-339	67	1,576
June	1,555	8	214	-388	65	1,454
July	1,591	8	222	-382	-3	1,436
August	1,590	8	221	-358	4	1,465
September	1,531	8	227	-379	12	1,399
October	1,558	9	236	-210	-62	1,531
November	1,537	10	238	272	-161	1,896
December	1,576	10	259	387	35	2,266
Total	18,793	109	2,784	2	279	21,967
1997						
January	1,626	12	266	709	-90	2,523
February	1,474	10	228	371	170	2,253
March	1,636	9	241	160	69	2,115
April	1,559	8	224	-61	64	1,795
May	1,619	8	232	-333	62	1,588
June	1,534	6	223	-379	67	1,451
July	1,593	7	225	-293	5	1,537
August	1,590	8	227	-334	28	1,518
September	1,553	6	226	-349	3	1,440
October	1,597	8	239	-218	-92	1,534
						,
November	1,547	10	259	196	-116	1,895
December	1,575	11	246	553	-68	2,317
Total	18,902	103	2,837	24	106	21,972
1998						
January	E1,615	^E 12	267	466	^R 50	R2.410
February	E1.484	E10	237	299	R78	R2.108
March	E1,617	E11	244	241	[₹] 18	R2,131
	re RE 1.549	E9				R1.706
April		-	235	-198	111	
May	RE1,599	E8	240	-393	^R 60	R1,514
June	^{RE} 1,557	E 7	236	-323	^R -6	R1,472
July	^{RE} 1,585	E 9	RE252	-314	^R 42	^R 1,574
August	E1,603	E 9	^{RE} 245	-283	^R 6	R1,579
September	E1,560	E9	RE254	-227	R-120	1,478
October	E1,592	E10	E261	-255	-121	E1,488
		E11		-233 RE ₂₀	-121 RE_99	
November(STIFS)	E1,567		E256			E1,755
December(STIFS)	E1,622	^E 13	^E 261	[€] 320	^E -63	^E 2,152
Total	E18,949	[€] 118	E2,987	E-646	E-43	E21,366

^a Supplemental gaseous fuels data are only collected on an annual basis except for the Dakota Gasification Inc. coal gasification facility which provides data each month. The ratio of annual supplemental fuels (excluding Dakota Gasification Inc.) to the sum of dry gas production, net imports, and net withdrawals from storage is calculated. This ratio, which varies between .0025 and .0037, is applied to the monthly sum of these three elements. The Dakota Gasification Inc. monthly value is added to the result to produce the monthly supplemental fuels estimate.

b Monthly and annual data for 1991 through 1996 include underground storage and liquefied natural gas storage. Data for January 1997 forward include underground storage only. See Appendix A, Explanatory Note 7 for discussion of computation procedures.
c Represents quantities lost and imbalances in data due to differences among data sources. See Appendix A, Explanatory Note 9, for full discussion.

Notes: Data for 1992 through 1996 are final. All other data are preliminary unless otherwise indicated. Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.

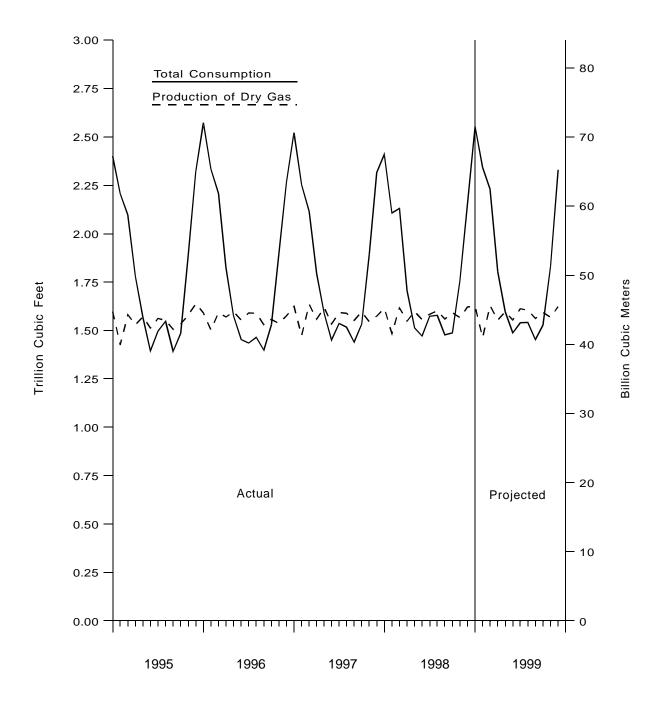
Sources: 1992-1996: Energy Information Administration (EIA), Natural Gas Annual 1996, 1994-1995: EIA: Form EIA-627, "Annual Quantity and Value of Natural Gas Report" (1995 data only), Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form EIA-191, "Monthly Underground Gas Storage Report," Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas," Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," EIA computations and Natural Gas Annual 1996. January 1997 through current month: EIA, Form EIA-895, "Monthly Quantity of Natural Gas Report," Form EIA-857, Form EIA-191, EIA computations, and estimates, Short-Term Integrated Forecasting System (STIFS) computations, and Office of Fossil Energy, U.S. Department of Energy, Natural Gas Imports and Exports. See Appendix A for dicussion of computation and estimation procedures and revision policies.

Represents quantities lost and impalances in data due to differences among data sources. See Appendix of Explanator, red Consists of pipeline fuel use, lease and plant fuel use, vehicle fuel, and deliveries to consuming sectors as shown in Table 3.

Revised Data.

⁼ Revised Estimated Data.

Figure 1. Production and Consumption of Natural Gas in the United States, 1995-1999



Sources: 1995 through the current month: Table 2. Projected data: Energy Information Administration, Short-Term Energy Outlook (October 1997).

Table 3. Natural Gas Consumption in the United States, 1992-1998

(Billion Cubic Feet)

Year and Month 992 Total	1,171 1,172 1,124 1,220	588 624 685 700	4,690 4,956 4,848	Commercial °2,803	Industrial	Electric Utilities	Total	Total Consumptior
993 Total 994 Total 995 Total 996 January February March April May	1,172 1,124	624 685	4,956					
993 Total 994 Total 995 Total 996 January February March April May	1,172 1,124	624 685	4,956		7,527	2,766	17,786	19,544
994 Total 995 Total 996 January February March April May	1,124	685		^c 2,863	7,981	2,682	18,483	20,279
995 Total				°2,897	8,167	2,987	18,899	20,708
January February March April May			4,850	°3,034	8,580	3,197	19,660	21,581
January February March April May								
FebruaryAprilAyril				400		400		
March	106	85	934	480	800	168	2,382	2,574
April May	101	77	831	443	747	137	2,158	2,335
May	106	72	705	387	781	156	2,030	2,209
May	104	59	474	284	736	170	1,663	1,826
	106	50	271	183	701	264	1,420	1,576
June	102	46	162	133	710	299	1,305	1,454
July	105	46	124	126	677	358	1,285	1,436
,								
August	105	47	118	123	704	367	1,312	1,465
September	102	45	138	124	706	285	1,253	1,399
October	104	49	243	171	737	226	1,378	1,531
November	103	62	503	295	764	170	1,732	1,896
December	105	74	738	409	807	132	2,086	2,266
Total	1,250	711	5,241	°3,161	8,870	2,732	20,006	21,967
997								
January	104	88	902	475	816	139	2,332	2,523
February	94	78	757	421	759	143	2,081	2,253
				360				
March	104	73	606		782	190	1,938	2,115
April	99	61	433	270	739	193	1,635	1,795
May	102	54	284	204	713	232	1,432	1,588
June	97	49	164	154	690	297	1,305	1,451
July	101	52	128	144	683	429	1,385	1,537
August	101	51	118	140	717	391	1,366	1,518
September	99	49	129	142	689	333	1,293	1,440
October	102	52	234	190	711	244	1,380	1,534
							,	,
November	99	65	497	306	748	180	1,731	1,895
December	101	81	731	411	796	197	2,135	2,317
Total	1,202	752	4,984	3,223	8,843	2,968	20,018	21,972
998								
January	E106	82	R803	R447	R800	171	R2,221	^R 2,410
February	E98	72	R683	R390	^R 731	134	R1,938	^R 2,108
March	[€] 106	73	^R 639	369	^R 750	194	R1,952	R2,131
April	E102	58	R407	254	^R 695	190	R1,546	R1,706
	E105							
May		52	R220	175	R669	293	R1,357	R1,514
June	E102	50	152	R143	^R 644	379	R1,319	R1,472
July	RE 104	54	^R 129	^R 153	^R 684	449	^R 1,416	^R 1,574
August	E105	54	^R 116	R160	686	458	^R 1,419	R1,579
September	E103	51	120	159	666	380	1,325	1,478
October(STIFS)	E104	^E 51	E218	E175	E703	NA	E1,332	E1,488
November(STIFS)	E103	ĕ 60	[€] 413	[€] 266	E722	NA	E1,592	E1,755
December(STIFS)	E107	^E 72	^E 655	E389	E742	NA	E1,974	E2,152
Total	E1,246	E729	[€] 4,556	E3,079	E8,493	_	E19,391	E21,366

a Plant fuel data are only collected on an annual basis and monthly lease fuel data are only collected annually. Lease and plant fuel estimates have been between 6 and 7 percent of marketed production annually. Monthly lease and plant fuel use is estimated from monthly marketed production by assuming that

Notes: Data for 1992 through 1996 are final. All other data are preliminary unless otherwise indicated. Estimates for the most recent three months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years,

agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Sources: 1992-1996: Energy Information Administration (EIA): Form EIA-627, "Annual Quantity and Value of Natural Gas Report," (thru 1994), Form EIA-895 "Monthly Quantity of Natural Gas Report," (1995 forward), Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form EIA-759, "Monthly Power Plant Report," EIA computations, and Natural Gas Annual 1996. January 1997 through the current month: EIA: Form 895, "Monthly Quantity of Natural Gas Report," Form EIA-857, Form EIA-759, and STIFS computations. See Appendix A, Explanatory Note 5, for computation procedures and revision policy.

Data not available.

the preceding annual percentage remains constant for the next twelve months.

b Pipeline fuel use is only collected on an annual basis. Annually it is between 3 and 4 percent of total consumption. Monthly pipeline fuel data are estimated from monthly total consumption (excluding pipeline fuel) by assuming that the preceding annual percentage remains constant for the next twelve months.

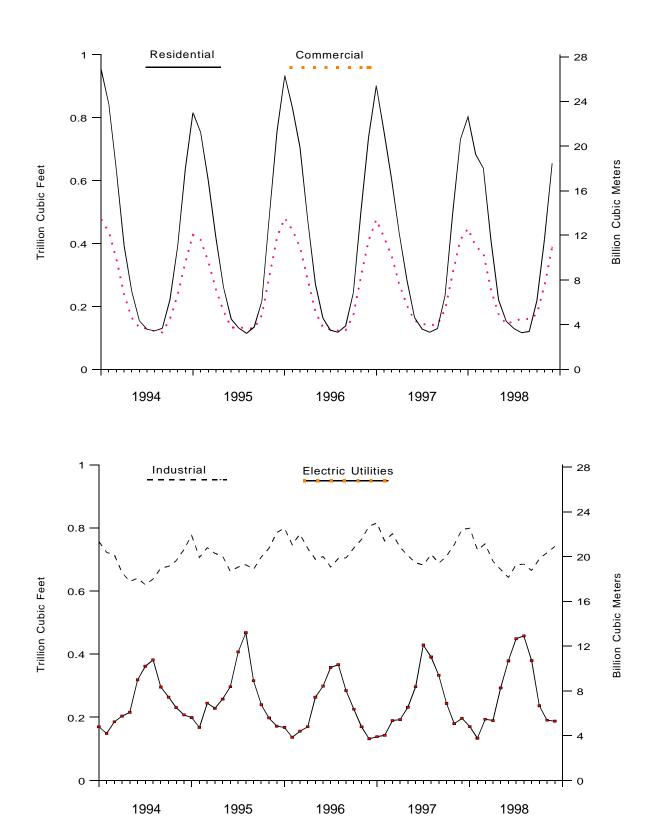
c Vehicle fuel deliveries, in billion cubic feet, were 0.4 in 1991, 0.5 in 1992, 1.0 in 1993, 1.7 in 1994, 2.7 in 1995 and 2.9 in 1996.

⁼ Revised Data. = Estimated Data.

RE = Revised Estimated Data.

NA = Not Available.

Figure 2. Natural Gas Deliveries to Consumers in the United States, 1994-1998



Sources: Natural Gas Annual, Form EIA-857, and Form EIA-759.

Table 4. Selected National Average Natural Gas Prices, 1992-1998

(Dollars per Thousand Cubic Feet)

V		0.4	Delivered to Consumers							
Year and Month	Wellhead Price ^a	City Gate Price	Residential	Com	mercial	Ind	ustrial	Electric Utilities		
MOIIII		I nice	Price	Price	% of Total ^b	Price	% of Total ^b	Price		
1992 Annual Average	1.74	3.01	5.89	4.88	83.2	2.84	30.3	2.36		
1993 Annual Average	2.04	3.21	6.16	5.22	83.9	3.07	29.7	2.61		
1994 Annual Average	1.85	3.07	6.41	5.44	79.3	3.05	25.5	2.28		
1995 Annual Average	1.55	2.78	6.06	5.05	76.7	2.71	24.5	2.02		
1996										
January	2.05	3.14	5.64	5.29	83.2	3.61	22.0	2.87		
February	1.89	3.16	5.82	5.25	83.3	3.61	22.7	3.07		
March	1.95	3.17	5.93	5.36	81.8	3.52	22.3	2.73		
April	2.08	3.22	6.27	5.34	79.5	3.42	20.5	2.68		
Mav	2.01	3.18	6.84	5.40	74.6	3.14	18.7	2.52		
June	2.08	3.41	7.83	5.43	70.0	3.13	16.7	2.59		
July	2.25	3.49	8.64	5.46	67.8	3.17	18.6	2.69		
August	2.10	3.46	8.73	5.56	66.3	3.05	17.4	2.57		
September	1.85	3.05	7.99	5.46	67.1	2.77	16.9	2.24		
October	1.94	2.94	7.05	5.33	69.1	2.89	17.2	2.24		
November	2.50	3.46	6.37	5.40	75.7	3.57	18.5	3.04		
December	3.26	4.18	6.47	5.78	78.1	4.20	20.0	3.04		
December	3.20	4.10	0.47	5.76	70.1	4.20	20.0	3.90		
Annual Average	2.17	3.34	6.34	5.40	77.6	3.42	19.4	2.69		
1997										
January	3.40	4.28	6.74	6.18	78.8	4.65	21.6	4.06		
February	2.49	3.76	6.79	6.13	78.4	4.20	19.7	2.97		
March	1.79	3.04	6.52	5.72	74.0	3.35	18.8	2.29		
April	1.81	2.92	6.53	5.46	71.8	3.02	18.4	2.30		
May	2.00	3.11	6.83	5.39	65.5	2.96	18.1	2.41		
June	2.08	3.41	8.30	5.64	61.7	3.10	17.4	2.52		
July	2.00	3.44	8.78	5.35	59.5	3.06	15.3	2.44		
August	2.08	3.34	8.99	5.43	57.9	2.90	15.6	2.53		
September	2.33	3.50	8.84	5.57	59.5	3.25	15.1	2.96		
October	2.68	3.86	7.69	5.73	62.9	3.69	16.8	3.24		
November	2.92	3.91	6.86	5.85	70.4	4.07	18.0	3.41		
December	2.28	3.42	6.54	5.70	72.8	3.79	17.2	2.77		
Annual Average	2.32	3.61	6.94	5.79	70.8	3.59	17.7	2.74		
1998										
January	E1.89	3.28	^R 6.47	5.59	72.4	3.68	14.9	2.64		
February	E1.80	3.08	6.41	5.56	71.0	3.52	15.3	2.51		
March	E1.95	3.22	6.27	5.38	71.0 R71.6	3.41	16.5	2.51		
	E2.02	R3.21	R6.78	85.58	67.0	3.41	15.0	2.54		
April	E1.96			^R 5.62	^R 60.2					
May		3.11	7.59			3.10	13.9	2.46		
June	E1.78	R2.98	R8.41	5.53	R59.9	2.95	R13.9	2.40		
July	E2.05	R3.36	R8.62	5.63	^R 51.3	2.99	R12.7	2.50		
August	RE1.84	R3.13	^R 9.18	^R 5.49	R46.8	2.73	13.6	2.21 NA		
September	E1.83	2.75	8.93	5.52	49.4	2.64	14.5	NA.		
1998 YTD:	E1.90	3.15	6.89	5.54	64.8	3.17	14.5	2.44		
1997 YTD	2.22	3.53	6.99	5.80	71.2	3.47	17.9	2.59		
1996 YTD	2.03	3.21	6.27	5.34	78.4	3.31	19.6	2.67		
	2.00	0.21	0.21	0.01	70.1	0.01	10.0	2.01		

Notes: Data for 1991 through 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use

was classified as commercial use. See Explanatory Note 5 for further explanation.

Sources: 1990-1996: Energy Information Administration (EIA) Natural Gas Annual 1996. 1997 forward: EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and EIA estimates. January 1997 through current month: See Appendix A, Explanatory Note 8 for estimation procedures and revision policy.

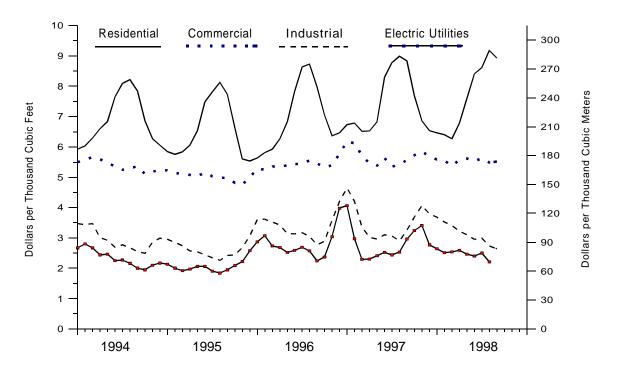
a See Appendix A, Explanatory Note 8, of the *Natural Gas Monthly (NGM)* for discussion of wellhead prices.
 b Percentage of total deliveries represented by onsystem sales, see Figure 6. See Table 24 for breakdown by State.
 c Year-to-date price represents months for which price information is available in the current year.

R = Revised Data.

E = Estimated Data.

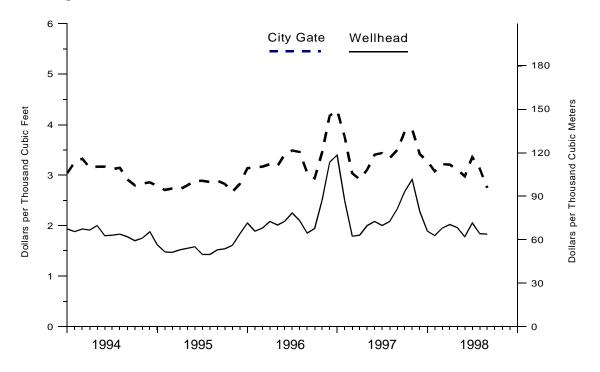
RE = Revised Estimated Data.
NA = Not Available.

Figure 3. Average Price of Natural Gas Delivered to Consumers in the United States, 1994-1998



Source: Table 4.

Figure 4. Average Price of Natural Gas in the United States, 1994-1998



Source: Table 4.

Table 5. U.S. Natural Gas Imports, by Country, 1992-1998

(Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

		Pipel	line			LN		Total		
Year and	Cana	da	Mexi	со	Alger	ia	Othe	er		Average
Month	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Price
1992 Total	2.094.387	1.84	_	_	43,116	2.54	_	_	2,137,504	1.85
1993 Total	2,266,751	2.02	1,678	1.94	81,685	2.20		_	2,350,115	2.03
1994 Total	2,566,049	1.86	7,013	1.99	50,778	2.28		_	2,623,839	1.87
1995 Total	2,816,408	1.48	6,722	1.53	17,918	2.30	_	_	2,841,048	1.49
1996										
January	259,656	2.08	1,499	2.03	2,460	2.81	_	_	263,615	2.09
February	230,546	1.94	698	2.14	2,512	2.79	_	_	233,756	1.95
March	237,668	1.91	1,259	2.34	2,599	3.06	_	_	241,526	1.92
April	230,928	1.86	1,369	2.18	4,559	2.43	_	_	236,857	1.87
May	245,522	1.70	4,024	2.14	2,612	2.58	_	_	252,158	1.72
June	225,875	1.70	711	2.35	_, -,		_	_	226,587	1.70
July	232,908	1.82	1,313	2.58	2.642	3.00	_	_	236,864	1.84
August	235,199	1.80	30	1.70	2,629	2.56	_	_	237.858	1.80
	234,206		770	1.69	,	2.50	^a 2,524	2.24		
September		1.60			0	0.00	2,524	3.34	237,500	1.62
October	241,294	1.68	1,110	2.37	5,116	2.96	_	_	247,520	1.71
November	245,795	2.25	982	2.85	5,031	2.59	_		251,807	2.26
December	263,681	3.00	96	3.30	5,164	2.51	^a 2,425	3.57	271,366	3.00
Total	2,883,277	1.96	13,862	2.25	35,325	2.70	4,949	3.45	2,937,413	1.97
1997										
January	266,756	3.27	1,555	3.09	7,560	2.78	^a 2,417	3.68	278,288	3.26
February	230,352	2.50	2,526	2.49	7.667	3.00	<u> </u>	_	240,545	2.52
March	251,328	1.70	3,127	1.83	2,530	2.98	_	_	256,985	1.72
April	235,431	1.66	189	1.92	2,557	2.23	_	_	238,178	1.67
May	234,345	1.81	2,380	2.03	2,552	2.20	^b 2,455	2.68	241,732	1.83
June	225,366	1.87	1,692	2.20	5,059	2.49		_	232,118	1.88
July	229,479	1.82	1,088	1.98	5,026	2.48	_	_	235,593	1.84
	237,142	1.81	1,000	2.35	7,535	2.43	_	_	244,684	1.83
August							^b 2.337			
September	232,090	2.00	29	2.47	5,030	2.41	2,337	2.88	239,486	2.01
October	245,742	2.32	965	2.92	5,050	2.70	h		251,758	2.33
November	257,782	2.71	1,874	2.82	7,542	2.89	^b 4,893	3.07	272,091	2.72
December	253,338	2.17	1,810	2.12	7,567	2.88	_	_	262,716	2.19
Total	2,899,152	2.15	17,243	2.32	65,675	2.67	12,103	3.08	2,994,173	2.17
1998										
January	273,189	2.02	56	2.11	10,105	2.89	_	_	283,351	2.05
February	235,288	1.95	2,824	1.97	7,607	2.83	^b 2,171	3.84	247,890	1.99
March	258,067	1.99	382	2.20	5,166	3.12	<u> </u>	_	263,615	2.01
April	242,191	2.00	3.251	2.37	2,549	2.20	_	_	247,991	2.01
May	242,041	1.98	846	2.15	7,596	2.52	_	_	250,483	2.00
June	243,259	1.92	5	2.21	5,125	2.39	^b 2.441	2.79	250,830	1.94
July	256,506	NA	RE1,800	NA NA	5,086	NA NA			RE263,393	NA
August	R249.717	NA	RE1,800	NA	2,540	NA	^b 2,321	NA	RE256,379	NA
	R260.599	NA	RE1.900	NA		NA		_		NA
September October	E266,302	NA	E1,800	NA	5,133 5,025	NA	-	-	^{RE} 267,632 ^E 273,127	NA
1998 YTD	E0 507 450	NA	E1 1 CC 1	NA	EE 022	NA	e 022	NA	E2 604 600	NA
	E2,527,159		E14,664		55,933		6,933		E2,604,689	
1997 YTD	2,388,032	2.09	13,558	2.27	50,567	2.61	7,210	3.08	2,459,366	2.11
1996 YTD	2.373.801	1.81	12,784	2.20	25,131	2.77	2.524	3.34	2,414,240	1.82

a Received from the United Arab Emirates.

Received from Australia.

Revised Data.

E Revised Data.

E Stimated Data.

NA = Revised Estimated Data.

NA = Not Available.

- Not Available.

- Not Applicable.

Sources: 1991-1994: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." January 1995 through the current month (except estimates): Office of Fossil Energy, U.S. Department of Energy, Natural Gas Imports and Exports. Estimated pipeline data (shown with an "E") are taken from data from the National Energy Board of Canada plus EIA estimates. LNG data: Industry reports.

Table 6. U.S. Natural Gas Exports, by Country, 1992-1998

(Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

		Pipe	eline		LI	NG	Total	
Year and	Car	nada	Me	xico	Ja	oan		
Month	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price
1992 Total	67,777	1.83	95,973	1.90	52,532	3.43	216,282	2.25
1993 Total	44,518	2.14	39,676	2.02	55,989	3.34	140,183	2.59
1994 Total	52,556	2.42	46,500	1.68	62,682	3.18	161,738	2.50
1995 Total	27,554	1.96	61,283	1.50	65,283	3.41	154,119	2.39
1996								
January	7,044	3.13	1,607	1.98	5,534	3.38	14,186	3.10
February	5.207	2.71	2.000	1.82	5,621	3.35	12,828	2.85
March	6,616	2.79	2,860	1.81	5,642	3.55	15,118	2.88
April	2,430	2.21	1,924	1.69	5,654	3.57	10,008	2.88
May	2.809	2.15	1,899	1.84	3,750	3.61	8,458	2.73
June	3,001	2.25	3,486	2.16	5,651	3.65	12,138	2.87
July	3,777	2.45	3,062	2.24	7,546	3.66	14,385	3.04
,	3,777 2,197	2.45	3,062 9,176	2.24	5,663	3.67	17,036	2.65
August	2,197 2,514	2.30 1.94	9,176 2,389	1.73	5,663	3.67	10,566	2.85
September								
October	4,311	1.97	1,990	1.85	5,589	3.84	11,889	2.83
November	6,776	2.77	1,533	2.56	5,670	4.01	13,979	3.25
December	5,222	3.67	1,914	3.72	5,665	3.73	12,801	3.70
Total	51,905	2.67	33,840	2.11	67,648	3.65	153,393	2.97
1997								
January	4,193	4.08	2,231	4.08	5,604	4.25	12,028	4.16
February	5,169	3.02	1,677	2.32	5,596	4.20	12,443	3.46
March	9,115	2.05	1,486	1.55	5,675	4.16	16,276	2.74
April	5,168	1.78	3,044	1.83	5,660	4.06	13,872	2.72
May	4,107	2.08	2,177	1.96	3,812	3.83	10,097	2.72
June	3,162	2.28	2,579	2.14	3,786	3.72	9,527	2.81
July	3,257	2.14	3,122	2.17	3,756	3.66	10,136	2.71
August	3,820	2.15	6,282	2.37	7,532	3.62	17,633	2.86
September	3,129	2.37	6,159	2.59	3,767	3.58	13,055	2.83
October	2,432	2.85	4,182	2.87	5,676	3.58	12,289	3.19
November	5,579	3.10	1,782	3.16	5,691	3.66	13,051	3.35
December	7,318	2.58	3,650	2.30	5,631	3.58	16,600	2.86
Total	56,447	2.52	38,372	2.46	62,187	3.83	157,006	3.02
1998								
January	5.056	2.53	4,257	2.11	7,446	3.67	16,759	2.93
February	4.474	2.14	3,119	2.06	3,726	3.42	11,319	2.54
March	7,818	2.25	4,204	2.14	7,435	3.09	19,457	2.55
April	4,409	2.47	2,676	2.14	5,702	2.81	12,787	2.57
Mav	2.083	2.28	6.123	2.12	1,891	2.70	10.097	2.26
	,		-, -				- ,	
June	3,404 RE2,000	1.73 NA	5,618 ^{RE} 4,100	1.98 NA	5,695	3.09 NA	14,717 ^{RE} 11,781	2.35 NA
July		NA.		NA NA	5,681	NA NA		NA NA
August	RE2,000	NA NA	RE4,100	NA NA	5,676	NA NA	RE11,776	NA NA
September October	^{RE} 2,000 ^E 2.000	NA NA	^{RE} 4,200 ^E 4,100	NA NA	7,584 5,679	NA NA	^{RE} 13,784 ^E 11,779	NA NA
	,	NA	,	NA	,	NA		NA
1998 YTD	E35,244	NA O. 40	E42,497	NA O.44	56,515	NA O OO	E134,256	NA O O4
1997 YTD	43,550	2.43	32,939	2.44	50,865	3.88	127,355	3.01
1996 YTD	39,906	2.52	30,393	1.98	56,313	3.60	126,613	2.87

Sources: 1991-1994: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." January 1995 through the current month (except estimates): Office of Fossil Energy, U.S. Department of Energy, Natural Gas Imports and Exports. Estimated pipeline data (shown with an "E") are taken from data from the National Energy Board of Canada plus EIA estimates. LNG data: Industry reports.

E = Estimated Data.
RE = Revised Estimated Data.
NA = Not Available.

Table 7. Marketed Production of Natural Gas, by State, 1992-1998 (Million Cubic Feet)

Year and Month	Alabama ^b	Alaska	Arizona	California	Colorado	Florida	Kansas
1992 Total	355.099	443.597	771	365,632	323,041	6,657	658,007
1993 Total	388,024	430,350	597	315,851	400,985	7,085	686,347
994 Total	515,272	555.402	752	309.427	453,207	7,486	712.730
995 Total	519,661	469,550	558	279,555	523,084	6,463	721,436
996							
January	45,653	44,655	41	20,714	48,619	518	62,976
February	42,668	40,433	42	22,910	45,504	493	62,683
March	45,334	43,738	45	24,686	47,843	460	63,027
April	43,868	39,694	36	23,988	45,293	456	60,858
May	45,160	36,348	39	24,091	46,893	483	62,194
June	43,319	37,334	45	23,281	45,212	503	56,318
July	43,257	37,272	30	24,495	45,570	500	57,095
August	43.873	37,239	43	24.547	51,269	540	55.144
September	42,834	38,039	31	23,826	45,437	537	55,563
October	42,200	41,204	34	24,261	50,245	468	57,589
November	45.395	40.706	37	24.493	49.824	517	58.460
December	47,278	44,166	40	25,203	50,363	531	60,890
Total	530,841	480,828	463	286,494	572,071	6,006	712,796
997							
January	48,213	43,497	46	24,430	52,755	527	60,198
February	46.024	39.391	41	21,876	48,424	512	55,275
March	51,313	42.625	42	23,910	53.954	610	60.099
April	51,246	38.687	39	23,248	52,529	554	58,357
May	48,802	35,427	36	23,590	52,376	541	61,661
June	47,342	36,344	28	22,928	50,715	450	59,996
July	46,370	36,284	31	23,981	52.964	514	58,234
August	46,314	36,270	30	23,841	54,041	505	61,937
September	48.911	37.041	30	23.760	52.742	519	49.658
October	50,634	40,095	34	24,437	54,260	452	53,815
November	49.734	39.631	57	24,792	55.549	439	54,152
December	48,368	43,020	39	24,896	57,064	491	53,834
Total	583,272	468,311	452	285,690	637,375	6,114	687,215
998							
January	32.739	43.715	43	24.810	53.025	479	E51.399
February	29,230	38,016	42	21,719	51,770	436	[€] 48,969
March	33,505	41,026	53	22,869	56,834	466	E50.055
April	32,406	R38,188	43	21,952	55.760	480	E49.045
May	33,656	R35.200	38	23.889	56,151	512	[€] 50.901
June	33,257	R36,116	34	24,837	54,493	428	E48,050
July	R33,696	R36,501	42	27,152	56,370	504	E48,048
August	33,719	36,331	36	[€] 27,913	56,841	529	E48,172
998 YTD	262,209	305.003	329	E195,141	441,244	3,833	E394,639
	,	305,093		,	,	,	
997 YTD	385,625	308,525	293	187,805	417,759	4,213	475,757
996 YTD	353,134	316,713	321	188,712	376,203	3,952	480,293

Table 7. Marketed Production of Natural Gas, by State, 1992-1998

(Million Cubic Feet) — Continued

Year and Month	Louisiana ^b	Michigan	Mississippi	Montana	New Mexico	North Dakota	Oklahoma
992 Total	4.914.300	194.815	91.697	53.867	1.268.863	54.883	2.017.356
993 Total	4,991,138	204,635	80,695	54,528	1,409,429	59,851	2,049,942
994 Total	5,169,705	222.657	63,448	50,416	1,557,689	57,805	1,934,864
995 Total	5,108,366	238,203	95,533	50,264	1,625,837	49,468	1,811,734
996							
January	437,274	21,912	8.089	4.503	135,594	4.276	143.693
February	412,611	18,686	7,386	4,266	126,370	3,880	139,115
March	446.371	11,208	8,385	4.443	138,091	4.164	131.701
April	436,014	32,072	8,225	4,098	132,572	4,122	147,949
	451,148	18,021	9,026	4,098	138,946	4,122	149,425
May							
June	434,668	23,572	8,983	3,496	131,778	3,990	143,675
July	449,052	27,119	9,335	3,603	125,193	4,047	146,451
August	449,461	23,261	9,193	4,050	126,967	4,096	148,463
September	431,768	20,208	8,641	4,172	122,040	4,185	143,302
October	421,252	20,374	8,996	4,668	123,570	4,246	150,322
November	427,566	16,081	8,487	4,521	124,377	4,216	146,828
December	443,563	13,227	8,518	4,933	128,590	4,178	143,965
Total	5,240,747	245,740	103,263	50,996	1,554,087	49,674	1,734,887
997							
January	445,257	34,940	8,253	4,654	135,263	3,952	144,608
February	405,366	16,875	7,807	4,451	122,656	3,899	134,455
March	447,802	24,790	8,470	4,836	137,830	4,453	147,098
April	431.010	12.944	8.120	4.654	132,438	4.364	136,246
May	443,269	39,819	8,611	4,561	136,553	4,539	142,336
June	425,934	19,314	8,893	3,808	125,256	4,348	138,038
	434,326	40,026	8,636	4,114	131,806	4,427	144,769
July							
August	438,965	18,597	9,626	4,213	134,140	4,486	147,528
September	430,599	22,451	9,162	4,199	128,915	4,381	150,488
October	445,702	20,297	10,084	3,150	134,623	4,508	145,054
November	434,908	26,013	9,683	4,706	120,856	4,416	135,537
December	446,682	29,885	9,955	5,091	118,298	4,629	137,731
Total	5,229,821	305,950	107,300	52,437	1,558,633	52,401	1,703,888
998				_			
January	463,097	28,439	9,639	^E 5,058	142,312	4,623	145,522
February	422,324	28,259	8,574	[€] 4,668	142,383	4,020	134,651
March	468,307	30,719	9,781	[€] 5,018	141,671	4,337	142,541
April	449,961	17,983	8,957	E4,714	140,963	4,284	134,885
May	461,826	29,164	9,121	E4,672	140,258	4,488	142,725
June	454,466	26,962	8,586	E3,805	E131,574	4,210	137,906
July	454.506	R26.188	9.258	[€] 3.990	E132,121	4.384	140.664
August	457,471	19,037	8,835	E4,242	E135,482	4,499	143,345
009 VTD	2 624 050	200 750	70.754	E20 407	E4 400 704	24.040	1 400 000
998 YTD	3,631,958	206,752	72,751	^E 36,167	E1,106,764	34,843	1,122,239
997 YTD	3,471,929	207,304	68,416	35,292	1,055,942	34,468	1,135,078
996 YTD	3,516,598	175,851	68,622	32,702	1,055,511	32,849	1,150,471

Table 7. Marketed Production of Natural Gas, by State, 1992-1998

(Million Cubic Feet) — Continued

Year and Month	Oregon	Texas ^c	Utah	Wyoming	Other ^a States	U.S. Total
1992 Total	2.580	6.145.862	171,293	842.576	800.913	18,711,808
1993 Total	4,003	6,249,624	225,401	634,957		18,981,915
					788,472	
1994 Total 1995 Total	3,221 1,923	6,353,844 6,330,048	270,858 241,290	696,018 673,775	774,724 759,728	19,709,525 19,506,474
	.,	5,225,512	,	2.2,		,,
1996 January	120	545,658	19,998	58,691	69,638	1,672,623
February	75	512,557	18,027	56,037	66,726	1,580,472
	105					
March		552,700	21,650	57,270	72,373	1,673,596
April	121	529,015	20,864	54,662	65,643	1,649,552
May	140	547,843	21,035	52,805	67,061	1,679,176
June	132	533,168	20,759	59,346	64,752	1,634,329
July	146	557,986	20,573	55,519	64,500	1,671,743
August	117	550,499	21,137	54,567	66,523	1,670,989
September	132	529,524	21,589	51,949	65,361	1,609,140
October	133	543,264	22,152	53,649	69,163	1,637,792
November	113	517,147	21,606	53,990	70,997	1,615,362
December	102	529,659	21,376	57,551	71,875	1,656,019
Total	1,439	6,449,022	250,767	666,036	814,612	19,750,793
1997						
January	105	554,934	21,782	59,016	66,837	1,709,269
February	98	506,768	19,115	55.848	59,897	1,548,774
March	101	564,269	21,912	61,159	64,286	1,719,559
April	102	539,499	19,570	64,278	61,118	1,639,002
May	102	552,230	22,053	62,726	62,301	1,701,532
	97	529,765	19,815	59,667	59,069	1,611,809
June						
July	98	546,610	21,711	60,324	58,493	1,673,719
August	99	548,267	21,024	61,091	59,686	1,670,660
September	86	525,836	22,007	64,678	56,803	1,632,265
October	97	540,150	23,006	64,992	62,912	1,678,302
November	91	519,274	22,840	62,181	60,863	1,625,720
December	96	526,271	22,307	62,410	64,414	1,655,481
Total	1,173	6,453,873	257,139	738,368	736,679	19,866,093
1998						
January	90	542,462	21,826	66,074	[€] 61,837	E1,697,189
February	79	491,530	21,758	53,970	E57,200	E1,559,599
March	96	541,311	23,656	65,704	[€] 61,188	E1,699,137
April	92	525,602	23,513	61,974	E57,188	RE1,627,991
May	92	550,442	24,967	54,304	[€] 58,146	RE1,680,552
June	90	527,613	23,968	63.574	€56,699	RE1.636.666
July	95	547,880	R23,036	64,917	[€] 55,998	RE1,665,349
August	94	561,133	E23,109	66,273	^E 57,217	E1,684,278
1000 VTD	700	4 207 072	E405 000	406.704	E405 470	E40 050 700
1998 YTD	728	4,287,973	E185,833	496,791	E465,473	E13,250,760
1997 YTD	803	4,342,342	166,980	484,108	491,687	13,274,325
1996 YTD	957	4,329,427	164,044	448,897	537,215	13,232,480

a Includes Arkansas, Illinois, Indiana, Kentucky, Maryland, Missouri, Nebraska, Nevada, New York, Ohio, Pennsylvania, South Dakota, Tennessee, Virginia and West Virginia. The 1997 monthly values for these States are estimated.
 b All data for 1991 through 1996 include Federal Offshore production. For 1997 and 1998, data for Alabama exclude Federal Offshore production and data for Louisiana include both the Louisiana and Alabama portions of Federal Offshore production.
 c Federal Offshore production volumes are included.
 R = Revised Data.
 E = Estimated Data.
 Revised Estimated Data.

Notes: Data for 1991 through 1996 are final. All other data are preliminary unless otherwise indicated. Totals may not equal sum of components because of independent rounding. See Appendix A, Explanatory Notes 1 and 3 for discussion of computation procedures and

revision policy.
Sources: 1991-1996: Energy Information Administration (EIA), Natural Gas Annual 1996.1997 through current month: Form EIA-895, "Monthly Quantity of Natural Gas Report," Minerals Management Service reports, and EIA computations.

Table 8. Gross Withdrawals and Marketed Production of Natural Gas by State, August 1998

(Million Cubic Feet)

		Gross Withdraw	/als	_	Nonhydro-	Vented	Manday !
State	From Gas Wells	From Oil Wells	Total	Repressuring	carbon Gases Removed ^a	and Flared	Marketed Production
Alabama	36.554	723	37.277	1.130	2.322	106	33.719
Alaska	14,627	249,185	263,812	226,720	0	761	36,331
Arizona	31	5	36	0	0	0	36
California	E7,470	E29,291	E36,761	[€] 8,593	E172	^E 84	E27,913
Colorado	49,885	7,681	57,566	641	0	83	56,841
Florida	0	597	597	0	69	0	529
Kansas	E44,438	E3,864	E48,303	E82	0	^E 48	E48,172
ouisiana	402,572	60,518	463,090	3,632	0	1,987	457,471
Michigan	15,494	3,874	19,368	136	0	194	19,037
Mississippi	10,080	649	10,729	917	746	232	8,835
Montana	E3,753	[€] 658	[€] 4,411	E 5	0	[€] 163	^E 4,242
New Mexico	E127,886	E22,168	E150,054	[€] 914	E13,415	E243	E135,482
North Dakota	1,463	3,470	4,933	0	5	430	4,499
Oklahoma	130,454	12,891	143,345	0	0	0	143,345
Oregon	111	0	111	4	13	0	94
Texas	497,535	120,389	617,923	39,988	14,202	2,600	561,133
Jtah	E21,208	E3,437	E24,646	^E 42	0	E1,495	E23,109
Wyoming	102,299	5,228	107,527	13,028	14,104	14,122	66,273
Other States	E54,203	E3,675	E57,878	^É 156	^É 394	^É 112	E57,217
Total	E1,520,063	E528,303	E2,048,367	E295,988	E45,441	E22,659	E1,684,278

a See Appendix A, Explanatory Note 1, for a discussion of data on Nonhydrocarbon Gases Removed.
 E = Estimated Data.
 Notes: All monthly data are considered preliminary until publication of the *Natural Gas Annual* for that year. Totals may not equal sum of components because of independent rounding. See Appendix A, Explanatory Notes 1 and 3 for discussion of computation procedures and revision policy.
 Source: Form EIA-895, "Monthly Quantity of Natural Gas Report."

Table 9. Underground Natural Gas Storage - All Operators, 1992-1998

(Volumes in Billion Cubic Feet)

Year and		Natural Gas in derground Stora at End of Period		from San	Vorking Gas ne Period us Year		Storage Activity	y
Month	Base Gas	Working Gas	Totalb	Volume	Percent	Injections	Withdrawals	Net Withdrawals
1992 Total ^a	4.044	2,597	6,641	-227	-8.0	2,555	2,724	168
1993 Totala	4,327	2,322	6,649	-275	-10.6	2,760	2,717	-43
1994 Totala	4,360	2,606	6,966	284	12.2	2,796	2,508	-288
1995 Totala	4,349	2,153	6,503	-453	3.1	2,566	2,974	408
1996								
January	4,354	1,462	5,817	-583	-28.5	49	749	700
February	4,349	1.021	5.369	-521	-33.8	97	544	447
March	4.290	758	5.048	-574	-43.1	80	403	323
April	4.312	854	5.166	-525	-38.1	227	112	-115
Mav	4.332	1.161	5.493	-507	-30.4	373	45	-328
June	4,332	1,529	5,493	-307 -485	-30.4 -24.1	410	45 35	-375
July	4,336	1,898	6,234	-404	-24.1 -17.5	418	49	-370
							54	
August	4,332	2,245	6,577	-250	-10.0	400		-346
September	4,338	2,605	6,943	-197	-7.0	398	32	-366
October	4,335	2,810	7,145	-186	-6.2	276	73	-203
November	4,339	2,549	6,889	-179	-6.6	90	354	264
December	4,341	2,173	6,513	19	0.9	86	461	374
Total	_	_	_	_	_	2,906	2,911	6
997								
January	4,347	1,496	5,843	32	2.3	68	753	684
February	4,342	1,139	5,481	118	11.6	55	413	358
March	4,345	990	5.336	232	30.7	131	285	155
April	4.342	1.051	5.393	196	23.1	205	146	-59
May	4.340	1,365	5.704	202	17.5	362	41	-321
June	4,357	1,731	6,088	202	13.2	407	42	-365
July	4,356	2.017	6,372	119	6.3	361	78	-282
	4,357	2,338	6.695	93	4.2	378	76 56	-322
August	4,360		-,	93 67	2.6	380	44	-322
September		2,672	7,033					
October	4,358	2,886	7,244	75	2.7	294	84	-210
November	4,359	2,699	7,058	150	5.9	113	302	189
December	4,350	2,175	6,525	2	0.1	45	579	533
Total	_	_	_	_	_	2,800	2,824	24
1998								
January	4,344	1,711	6,055	215	14.4	68	534	466
February	4,338	1,418	5,756	278	24.4	74	373	299
March	4,339	1,184	5,523	193	19.5	136	377	241
April	4.336	1,381	5.718	330	31.4	277	78	-198
May	4.338	1,773	6,111	412	30.2	435	42	-393
June	4.343	2,101	6.444	371	21.4	375	52	-323
July	4.337	2.416	6,753	402	20.0	366	52	-314
August	4.333	2.695	7,028	358	15.3	341	58	-283
September	4,337	2,093	7,028	274	10.2	305	78	-203
October	4,339	3,172	7,512	287 RE 450	9.9	301 NA	46 NA	-255
November(STIFS) December(STIFS)	RE4,339 E4,339	RE3,152 E2,832	^{RE} 7,491 ^E 7,171	^{RE} 453 ^E 657	RE16.8 E30.2	NA NA	NA NA	^{RE} 20 E320
Total	-,000		_	_	_	NA	NA	-646

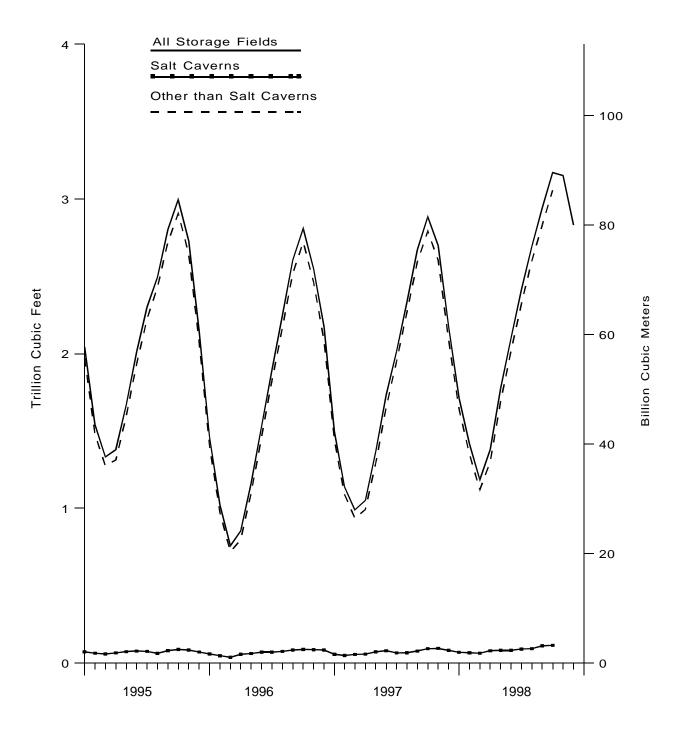
— = Not Applicable.

Notes: Data for 1992 through 1996 are final. All other data are preliminary unless otherwise noted. Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). See Explanatory Note 7 of the Natural Gas Monthly for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia.In January 1995, 2 billion cubic feet was added to base gas for two new respondents. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and STIFS.

a Total as of December 31.
b Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1991 - 7,993; 1992 - 7,932; 1993 - 7,989; 1994 - 8,043; 1995 - 7,927; 1996 - 8,159; and 1997 - 8128.
c Negative numbers indicate the volume of injections in excess of withdrawals. Positive numbers indicate the volume of withdrawals in excess of injections.
E = Estimated Data.
RE = Revised Estimated Data.
NA = Not Available.
- Not Applicable.
- Storage Total Positive Notes - Positive Notes -

Figure 5. Underground Natural Gas Storage in the United States, 1995-1998



Sources: Energy Information Administration, Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Table 10. Underground Natural Gas Storage - by Season, 1993-1998

(Volumes in Billion Cubic Feet)

Year, Season and		Natural Gas in derground Stora at End of Period		from Sar	Working Gas ne Period us Year		Storage Activit	y
Month	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Net Withdrawals ^a
March 1996	4,290	758	5,048	-574	-43.1	80	403	323
1996 Refill Season								
April	4,312	854	5,166	-525	-38.1	227	112	-115
May	4,332	1,161	5,493	-507	-30.4	373	45	-328
June	4,341	1,529	5,870	-485	-24.1	410	35	-375
	4,336	1,898	6,234	-404	-24.1 -17.5	418	49	-370
July						400	49 54	-370 -346
August	4,332	2,245	6,577	-250	-10.0			
September	4,338	2,605	6,943	-197	-7.0	398	32	-366
October	4,335	2,810	7,145	-186	-6.2	276	73	-203
Total	_	_	_	_	_	2,502	401	-2,102
1996-97 Heating Season								
November	4,339	2,549	6,889	-179	-6.6	90	354	264
December	4,341	2,173	6,513	19	0.9	86	461	374
January	4.347	1,496	5.843	32	2.3	68	753	684
February	4,342	1,139	5,481	118	11.6	55	413	358
March	4.345	990	5,336	232	30.7	131	285	155
Marcii	4,340	990	5,330	232	30.7	131	265	155
Total	_	_	-	_	_	430	2,266	1,835
1997 Refill Season								
April	4,342	1,051	5,393	196	23.1	205	146	-59
May	4.340	1,365	5,704	202	17.5	362	41	-321
June	4,357	1,731	6,088	202	13.2	407	42	-365
July	4.356	2.017	6.372	119	6.3	361	78	-282
August	4,357	2,338	6,695	93	4.2	378	56	-322
	4.360	2,672	7,033	67	2.6	380	44	-336
September	,	,	,					
October	4,358	2,886	7,244	75	2.7	294	84	-210
Total	_	_	_	_	_	2,388	492	-1,896
1997-98 Heating Season								
November	4,359	2,699	7,058	150	5.9	113	302	189
December	4,350	2,175	6,525	2	0.1	45	579	533
January	4,344	1,711	6,055	215	14.4	68	534	466
February	4.338	1,418	5,756	278	24.4	74	373	299
March	4,339	1,184	5,523	193	19.5	136	377	241
Total	_	_	_	_	_	436	2,165	1,729
1998 Refill Season								
April	4,336	1,381	5.718	330	31.4	277	78	-198
May	4,338	1,773	6,111	412	30.2	435	42	-393
June	4,343	2,101	6,444	371	21.4	375	52	-323
	4,343	2,416	6,753	402	20.0	366	52	-323 -314
July								
August	4,333	2,695	7,028	358	15.3	341	58	-283
September October	4,337 4,339	2,946 3,172	7,284 7,512	274 287	10.2 9.9	305 301	78 46	-227 -255
Total	_	_	_	_		2,399	406	-1,993
						,		,
1998-99 Heating Season	RE4 220	RE3.152	RE7.491	RE453	RE4.C.O	NA	NA	RE20
November(STIFS)	RE4,339		.,		RE16.8	NA NA	NA NA	
December(STIFS)	[€] 4,339	E2,832	^E 7,171	[€] 657	E30.2	.40	***	[€] 320

a Negative numbers indicate the volume of injections in excess of withdrawals. Positive numbers indicate the volume of withdrawals in excess of injections.

RE = Revised Estimated Data.

NA = Not Available.

- = Not Applicable.

Notes: Data for 1995 and 1996 are final. All other data are preliminary unless otherwise noted. Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). See Explanatory Note 7 of the Natural Gas Monthly for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantity of native gas in loaded in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent requesting. Geographic coverage is the 50 States and the District of from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia.In January 1995, 2 billion cubic feet was added to base gas for two new respondents. Positive net withdrawals indicate the volume of withdrawals in

excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Underground Natural Gas Storage Report," Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and STIFS.

E = Estimated Data.

RE = Revised Estimated Data.

Table 11. Underground Natural Gas Storage - Salt Cavern Storage Fields, 1996-1998 (Volumes in Billion Cubic Feet)

Year and		ral Gas in Salt Ca derground Stora at End of Period	ige	from Sar	Norking Gas ne Period us Year		Storage Activity	,
Month	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Net Withdrawals
1996								
January	63	59	122	-14	-19.3	23	41	17
February	63	48	111	-17	-26.2	23	33	10
March	63	38	101	-21	-35.2	21	32	11
April	63	57	120	-9	-13.7	30	10	-20
May	63	62	126	-11	-15.1	19	13	-6
June	63	71	135	-11 -7	-8.9	21	12	-0 -9
July	60	71	131	-5	-6.7	20	14	-6
August	60	76	136	13	20.5	21	16	-5
September	60	85	145	4	5.0	23	13	-9
October	60	88	148	0	0.4	17	14	-3
November	64	87	151	3	4.0	16	20	5
December	64	85	149	14	18.8	25	28	2
Total	_	_	_	_	_	258	246	-13
1997								
January	65	57	122	-2	-3.1	21	51	30
February	59	49	109	2	4.0	15	23	8
March	65	56	121	18	47.3	22	16	-6
April	65	58	123	1	1.8	22	19	-2
May	65	73	138	10	17.3	27	13	-14
June	66	80	145	8	11.7	22	16	-7
July	65	66	131	-6	-7.5	15	30	15
August	65	67	132	-11	-12.4	23	22	0
September	65	78	143	-9	-8.7	27	14	-12
October	66	93	159	4	5.6	30	14	-16
November	67	95	162	7	9.4	25	24	-2
December	67	83	150	-4	-3.0	19	31	12
Total	_	_	_	_	_	267	274	6
1998								
January	66	70	136	13	22.4	17	31	14
February	65	67	132	18	35.9	17	21	3
March	68	64	132	8	14.4	23	28	6
April	68	80	148	22	37.9	29	11	-17
May	68	83	150	9	12.9	26	22	-3
June	66	83	149	3	4.0	21	23	2
July	66	91	157	26	39.2	26	18	-8
August	65	93	158	26	39.5	24	21	-0 -2
September	67	112	179	34	39.5 44.2	22	30	-2 9
	67	115	182	22	23.7	44	12	-32
October	07	110	102	22	23.1	44	12	-32

^{- =} Not Applicable

Notes: Data for 1995 and 1996 are final. All other data are preliminary unless otherwise noted. See Explanatory Note 7 of the *Natural Gas Monthly* for discussion of the reporting of underground storage information. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia. Positive net withdrawals indicate the volume of injections in excess of withdrawals.

withdrawals in excess of injections. Negative net withrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Table 12. Underground Natural Gas Storage - Storage Fields Other than Salt Caverns, 1996-1998

(Volumes in Billion Cubic Feet)

Year and		Gas in Non-Salt derground Stora at End of Period	ige	from Sai	Working Gas ne Period us Year		Storage Activity	′
Month	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Net Withdrawals
1996								
January	4,291	1,404	5,695	-569	-28.8	26	708	682
February	4,286	973	5,259	-504	-34.1	73	510	437
March	4,228	720	4.948	-553	-43.4	59	371	312
April	4,249	720 797	5,046	-516	-39.3	197	102	-95
•	,		,	-496	-31.1		32	-322
May	4,268	1,099	5,367			354		
June	4,277	1,458	5,735	-478	-24.7	390	23	-366
July	4,276	1,827	6,103	-399	-17.9	398	34	-363
August	4,272	2,169	6,441	-263	-10.8	380	39	-341
September	4,277	2,520	6,797	-201	-7.4	376	19	-357
October	4,275	2,722	6,997	-186	-6.4	259	59	-200
November	4,275	2,462	6,737	-183	-6.9	75	333	259
December	4,277	2,087	6,364	6	0.3	61	433	372
Total	_	_	-	_	_	2,647	2,665	18
997								
January	4,282	1,439	5,721	34	2.5	47	702	654
February	4,283	1,090	5,372	116	12.0	40	390	350
March	4,280	935	5,215	214	29.8	109	269	160
April	4,277	993	5,270	195	24.6	184	127	-56
May	4,275	1,292	5,566	191	17.6	335	28	-307
June	4,291	1,651	5,942	194	13.3	385	26	-358
July	4,290	1,951	6,241	124	6.8	346	49	-297
August	4,291	2,271	6,563	103	4.7	356	34	-322
September	4,295	2,595	6,890	75	3.0	353	29	-324
October	4,292	2,793	7,085	70 70	2.6	265	70	-195
November	4,292	2,604	6,896	142	5.8	88	278	191
December	4,283	2,004	6,375	4	0.2	27	548	521
Total	_	_	_	_	_	2,533	2,551	18
1998								
January	4,278	1,641	5,920	202	14.0	51	504	453
February	4,273	1,351	5.624	260	23.9	56	352	296
March	4,271	1,120	5,391	185	19.8	113	349	236
April	4,269	1,301	5,570	308	31.0	248	67	-181
May	4,270	1,691	5,961	402	31.2	409	20	-390
June	4,277	2,018	6,295	367	22.3	354	29	-325
	4,271	2,324	6,596	376	19.3	340	34	-306
July	4,271	2,602	6,870	332	14.6	340	37	-306 -281
August	,	,	,					
September	4,270	2,834	7,104	240	9.2	283	48	-235
October	4,272	3,057	7,329	265	9.5	257	34	-223

— = Not Applicable.

Notes: Data for 1995 and 1996 are final. All other data are preliminary unless otherwise noted. See Explanatory Note 7 of the *Natural Gas Monthly* for discussion of the reporting of underground storage information. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"

Disposition."

Table 13. Net Withdrawals from Underground Storage, by State, 1996-1998 (Volumes in Million Cubic Feet)

				1998			
State	October	September	August	July	June	Мау	April
abama	-613	401	-200	9	-623	-144	-245
rkansas	-580	-817	-1,005	-1,034	-1,100	-1,046	-471
alifornia	-23,926	-9,990	-7,283	-9,435	-27,493	-29,210	-10,710
olorado	-2,043	-5,919	-5,877	-4,060	-3,907	-6,040	3,534
inois	-27,923	-28,122	-31,634	-25,062	-31,348	-25,967	-293
diana	-2,904	-4,534	-3,695	-2,476	-575	-446	917
wa	-7,108	-12,149	-12,102	-11,525	-8,405	-3,600	348
ansas	-8,737	-9,284	-12,200	-13,108	-6,267	-19,324	-6,954
entucky	-5,237	-8,821	-4,533	-10,622	-8,137	-11,793	-2,480
ouisiana	-30,831	-9,708	-20,159	-25,597	-14,635	-22,794	-21,191
laryland	-1,267	-783	-1,407	-2,924	-1,251	-808	-1,127
lichigan	-27,089	-31,023	-52,128	-60,857	-69,589	-69,296	-31,779
linnesota	-187	-275	-214	-289	-169	0	159
lississippi	-9.800	156	-4.139	-5,961	-2.887	-3.438	-2,757
issouri	-208	-414	-203	8	143	-460	48
lontana	-1.532	-4,239	-4.524	-2,295	-2.024	-2,571	224
ebraska	-363	-864	-616	-796	-528	-860	754
ew Mexico	-1.903	-1,185	-208	-191	-180	-1,120	287
ew York	-4.464	-5.640	-5.247	-8.108	-8.786	-11.267	-3.673
hio	-12,746	-19,259	-27,246	-31,220	-25,882	-35,968	-14,906
klahoma	-19,520	-12.146	-7,189	-7,554	-12,460	-23,277	-21,343
regon	4	-818	-819	-852	-1,411	0	81
ennsylvania	-20.091	-27,252	-19.657	-31,998	-34.236	-57.800	-32.842
exas	-34,137	-5,040	-18,629	-18,872	-20,145	-27,286	-40,395
tah	-3,879	-8,260	-7,385	-7,265	-8,225	-7,364	-596
/ashington	719	-1,822	-3.640	-312	-2,963	-3,932	1.544
/est Virginia	-7.094	-16,425	-29.075	-28.560	-26.404	-26.003	-14,607
/yoming	-1,425	-2,602	-2,008	-2,807	-3,406	-1,344	89
GA Regions							
Producing	-105,507	-38,023	-63,530	-72,318	-57,675	-98,285	-92,824
Eastern Consuming	-117,105	-154.885	-187,744	-214,131	-215.621	-244.412	-99.884
Western Consuming	-32,268	-33,925	-31,751	-27,316	-49,599	-50,461	-5,674
	-254,881	-226,833	-283,025	-313,764	-322,895	-393,158	-198,382

Table 13. Net Withdrawals from Underground Storage, by State, 1996-1998

(Volumes in Million Cubic Feet) — Continued

-		1998		1997					
State	March	February	January	Total	December	November	October		
labama	248	187	396	-162	243	243	-251		
rkansas	1,039	875	1,057	250	1,526	651	271		
California	-2,257	26,766	29,805	16,340	58,418	2,846	-11,717		
Colorado	3,928	6,337	3,510	-525	5,026	2,503	359		
linois	28,186	36,082	58,036	-10,153	44,906	2,805	-28,399		
ndiana	4.249	3.322	4.144	984	4.193	-879	-3.088		
owa	6,692	5,335	18,905	-6,255	17,041	505	-8,412		
ansas	14,438	8,180	15,103	-11,372	12,277	8.384	-7,782		
entucky	7,768	9,981	9,559	3,013	10,773	4,035	-2,926		
ouisiana	7,400	5,164	21,574	-9,248	43,644	20,997	-24,035		
laryland	1,631	2,745	3,236	-544	1,298	33	-2,346		
Michigan	55,388	45,886	84,170	-3,388	78,027	53,016	-32,466		
linnesota	416	203	444	-373	4	4	02,100		
lississippi	2,405	4,251	7,431	3,763	8,484	1,089	-2,126		
lissouri	423	10	458	-453	228	-207	-2,120		
11550u11	423	10	430	-400	220	-207	-213		
Iontana	3,017	2,554	4,421	11,962	3,169	2,760	1,015		
lebraska	1,090	355	376	-1,590	944	124	-69		
lew Mexico	658	-130	-412	2,065	2,500	25	-1,305		
lew York	7,977	9,548	11,582	304	10,735	4,857	-2,211		
Phio	28,619	34,023	34,810	-7,336	40,530	15,502	-8,809		
klahoma	7.159	737	21.199	-9.482	25.362	13,995	-19,663		
regon	934	1,253	540	-1,316	1,036	-262	-97		
ennsylvania	38,957	49.786	57,788	28,381	53,825	26,061	-15,914		
exas	-9.062	-3,341	35.935	10,035	53.619	18,531	-30.600		
ltah	1,199	6,783	7,613	-7,571	13,169	2,721	-1,301		
Vashington	3,329	4,131	-58	-1,003	3,159	83	702		
Vest Virginia	22,818	36,285	30.647	16.716	36,318	6,615	-8,145		
Vyoming	2,611	2,059	3,990	908	3,019	1,906	-591		
CA Bariana									
GA Regions Producing	24,038	15,735	101,887	-13,990	147,412	63,672	-85,240		
Eastern Consuming	204,045	233,545	314,105	19,518	299,061	112,710	-113,251		
Western Consuming	13,177	50,086	50,266	18,423	87,001	12,560	-11,630		
Trodical Consuming	10,177	50,000	50,200	10,420	07,001	12,000	11,000		
Total	241,260	299,366	466,258	23,950	533,474	188,941	-210,121		

Table 13. Net Withdrawals from Underground Storage, by State, 1996-1998

(Volumes in Million Cubic Feet) — Continued

				1997			
State	September	August	July	June	May	April	March
labama	-262	-286	-43	-93	-271	-130	-25
rkansas	-1,048	-1,234	-1,472	-1,340	-608	178	342
alifornia	-6,637	-7,805	-11,213	-22,886	-23,687	-18,968	-289
olorado	-5,203	-4,559	-5,592	-5,293	-5,375	5,441	2,020
nois	-35,655	-35,387	-32,161	-27,571	-23,526	-636	22,821
diana	-4,559	-3,722	-3,299	-1,913	-110	1,444	2,537
va	-12,825	-11,001	-8,818	-8,375	-3,470	1,634	2,966
ansas	-13,351	-11,129	-3,488	-11,777	-9,463	-1,497	4,053
entucky	-7,983	-6,520	-7,430	-8,997	-7,828	-363	4,141
uisiana	-29,291	-15,446	-11,847	-19,809	-19,573	-3,990	-18,885
aryland	-2,838	-2,353	-1,536	-1,700	-1,632	114	1,896
ichigan	-65,209	-73,230	-75,558	-73,547	-46,757	-14,032	53,634
nnesota	-130	-142	-321	-312	-273	-40	177
ssissippi	-5,224	-3,109	741	-3,797	-5,573	449	-2,294
ssouri	-240	-379	-433	-112	-1,200	56	1,174
ontana	-1,490	-2,339	-2,710	-1,633	-846	1,810	2,591
ebraska	-1.099	-971	-76	-803	-714	-47	-245
ew Mexico	-853	-328	587	-534	-1,228	583	501
ew York	-6,455	-11,606	-11,663	-11,184	-7,589	-1,623	9,239
nio	-23,499	-32,174	-34,224	-37,483	-34,205	-1,447	21,559
klahoma	-14.556	-8.393	-811	-7.984	-18.407	-7.180	-8.168
egon	-410	-1,178	-1,301	-1.681	-1,300	543	919
ennsylvania	-48,745	-44,878	-42,074	-50,051	-43,897	-3,188	50,395
exas	-21,731	-12,881	10,561	-20,379	-28,071	-17,396	-21,279
ah	-3,235	-5,284	-8,117	-7,950	-4,255	-2,150	-2,620
ashington	-2,268	982	-495	-3,766	-5,881	-71	3,200
est Virginia	-19,091	-24,119	-26,183	-31,856	-24,165	1,674	23,270
yoming	-2,454	-2,727	-3,411	-2,304	-1,127	137	1,090
GA Regions							
Producing	-86,054	-52,520	-5,729	-65,620	-82,922	-28,852	-45,732
Eastern Consuming	-228,461	-246,626	-243,499	-253,685	-195,364	-16,545	193,362
Western Consuming	-21,826	-23,050	-33,161	-45,825	-42,743	-13,297	7,088
otal	-336,341	-322,196	-282,389	-365,130	-321,030	-58,694	154,718

Table 13. Net Withdrawals from Underground Storage, by State, 1996-1998

(Volumes in Million Cubic Feet) — Continued

	19	997		19	996	
State	February	January	Total	December	November	October
Alabama	184	531	-1,224	761	129	-117
Arkansas	1,006	1,978	64	644	562	-603
California	19,814	38,462	51,292	14,985	-2,885	-6,393
Colorado	4,766	5,382	-1,004	2,923	92	-87
Illinois	39,383	63,269	-15,109	35,109	15,523	-28,103
Indiana	2,954	7,425	-1,801	3,290	-853	-2,715
lowa	8,497	16,003	-1,229	18,020	5,502	-10,555
Kansas	8,989	13,411	12,118	12,290	12,828	-6,005
Kentucky	8,048	18,062	-7,530	8,039	4,853	-2,826
Louisiana	20,943	48,043	10,964	32,273	29,327	-15,704
Maryland	2,653	5,867	24	958	1,424	-1,553
Michigan	71,586	121,150	-31,671	83,640	61,160	-49,100
Minnesota	109	551	-30	218	30	-35
Mississippi	2,905	12.216	-12.758	4,658	5.707	-3,369
Missouri	-252	1,126	-48	76	306	-210
Montana	3.983	5.651	11.725	5,512	4.760	336
Nebraska	502	865	-1,489	1.108	479	600
New Mexico	1.527	591	5,338	-823	607	482
New York	10.141	17.664	-13.367	8.151	6.347	-2.750
Ohio	28,161	58,753	-10,844	35,138	25,728	-13,648
Oklahoma	8,115	28,208	22,961	20,970	17,468	-10,345
Oregon	1,076	1,340	783	1,240	552	170
Pennsylvania	52,423	94,422	-59,533	25,003	33,464	-15,621
Texas	24,835	54,826	63,869	24,153	12,557	-22,072
Utah	2,520	8,931	12,955	9,164	4,651	1,416
Washington	1.784	1.566	2.067	1.746	462	1.648
West Virginia	28.818	53.582	-35.844	21.644	19.884	-15.242
Wyoming	2,995	4,376	5,056	3,529	2,903	-272
AGA Regions						
Producing	68,321	159,274	102,555	94,165	79.056	-57,617
Eastern Consuming	253,097	458,719	-179,663	240,936	173,946	-141,841
Western Consuming	37,049	66,259	82,844	39,316	10,566	-3,217
Total	358,466	684,252	5,735	374,417	263,567	-202,675

Notes: This table contains total net withdrawals for each State with natural gas storage facilities. Positive numbers indicate the volume of withdrawals in excess of injections. Negative values indicate the volume of injections in excess of withdrawals. Data through 1996 are final.All other data are preliminary at this time and are not considered final until publication of the *Natural Gas Annual* for that year. The American Gas Association (AGA) publishes weekly estimates of working gas levels in underground storage by region. AGA defines the Producing Region as Texas, Oklahoma, Kansas, New Mexico, Louisiana, Arkansas, and Mississippi; the Eastern Consuming Region as all States east of the Mississippi River less Mississippi, plus Iowa, Nebraska and Missouri; the Western Consuming Region as all States west of the Mississippi River less the Producing Region and Iowa, Nebraska and Missouri.

Source: Form EIA-191, "Monthly Underground Gas Storage Report."

Table 14. Activities of Underground Natural Gas Storage Operators, by State, October 1998

(Volumes in Million Cubic Feet)

State	Total Storage	U	Natural Gas in nderground Sto at End of Perio	rage	from Sar	Vorking Gas ne Period us Year	Storag	e Activity
	Capacity	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals
			. ===					
Alabama	3,280	1,190	1,752	2,942	-14	-0.8	613	0
Arkansas	31,871	10,909	8,888	19,797	1,241	16.2	616	37
California	396,430	246,951	189,504	436,455	2,446	1.3	24,970	1,044
Colorado	99,600	48,140	40,518	88,658	2,999	8.0	3,113	1,070
Illinois	898,565	649,968	259,176	909,144	-2,719	-1.0	31,748	3,826
Indiana	113,210	73,777	33,408	107,186	-221	-0.7	3,022	118
lowa	271,200	200,700	65,720	266,420	5,020	8.3	8,730	1,622
Kansas	304,066	190,287	111,969	302,257	17,712	18.8	10,605	1,868
Kentucky	219,908	109,121	105,215	214,336	9,055	9.4	6,146	909
Louisiana	559,013	266,105	257,788	523,893	49,527	23.8	35,798	4,967
Maryland	62,000	46,677	15,031	61,709	589	4.1	1,808	541
Michigan	992,934	420.316	598,155	1.018.471	25.985	4.5	30,229	3.141
Minnesota	7.000	4.623	2,284	6,907	-97	-4.1	187	0
Mississippi	134,012	77,377	56,919	134,296	5.581	10.9	10.992	1,192
Missouri	31,274	21,600	9,642	31,242	175	1.8	214	6
Montana	342.785	167,366	53.044	220.410	1.053	2.0	2.342	811
Nebraska	39,469	31,507	4,970	36,477	406	8.9	451	88
New Mexico	96,600	25,258	9,446	34,703	2,726	40.6	2,578	675
New York	175,479	103,042	75,039	178,080	6,475	9.4	5,467	1,003
Ohio	573,434	352,680	197,141	549,822	13,773	7.5	14,284	1,538
Oklahoma	396,087	234.063	153,592	387,655	36.476	31.1	21,222	1,703
Oregon	11,623	4,666	5,152	9,818	-1,621	-23.9	15	19
Pennsylvania	684,842	354,901	364,208	719,109	15,442	4.4	28,998	8,907
Texas	683,891	253,871	289.854	543,725	69,315	31.4	40.665	6,527
Utah	121,980	64,601	49,042	113,644	8,811	21.9	4,058	179
Washington	37,300	22,096	13,664	35,761	-434	-3.1	721	1,439
West Virginia	734.158	296.487	178.143	474.630	16.927	10.5	9.671	2.577
Wyoming	105,869	60,782	23,230	84,012	93	0.4	1,489	65
AGA Regions								
Producing	2.205.540	1,057,869	888.456	1,946,325	182,577	25.9	122.476	16,969
Eastern Consuming	,,	2,661,966	1,907,603	4,569,569	90.894	5.0	141,381	24,276
Western Consuming	,,	619,226	376,439	995,665	13,250	3.6	36,895	4,626
Total	8.127.879	4.339.061	3.172.498	7,511,559	286.720	9.9	300.753	45.872

Notes: Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia. The American Gas Association (AGA) publishes weekly estimates of working gas levels in underground storage by region. AGA defines the Producing Region as Texas, Oklahoma, Kansas, New Mexico, Louisiana, Arkansas, and Mississippi; the Eastern Consuming Region as all States east of the Mississippi River less Mississippi, Plus Iowa, Nebraska and Missouri; the Western Consuming Region as all States west of the Mississippi River less Mississippi River less the Producing Region and Iowa, Nebraska and Missouri.

Source: Form EIA-191, "Monthly Underground Gas Storage Report."

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1996-1998 (Million Cubic Feet)

Alabama 38,304 35,137 44,750 1 Alaska 10,230 9,732 11,052 Arkansa 28,079 23,267 20,254 Arkansas 26,517 30,701 34,811 1 California 414,718 345,939 336,241 22 Colorado NA 83,683 80,652 2 Colorado 26,423 29,284 32,560 Delaware 6,102 6,837 7,617 District of Columbia 10,106 11,419 13,055 Florida 12,201 9,524 12,986 Georgia 77,890 71,303 88,066 2 Georgia 77,890 71,303 88,066 2 Hawaii 426 392 416 Idaho 11,379 10,803 10,501 Idinois 276,039 341,758 366,031 10 Indiana NA 117,933 127,429 10 Idaho 11,379 10,803 10,501 Idinois 276,039 341,758 366,031 10 Indiana NA 117,933 127,429 10 Idwa 49,029 56,991 60,538 1 Kentucky 31,147 43,704 48,015 1 Louislana 37,359 38,558 44,841 1 Maryland NA 54,933 62,540 Massachusetts NA 81,698 85,463 1 Maryland NA 14,523 15,164 Nebraska 31,446 35,536 35,489 New Hampshire NA 156,332 163,787 1 New Jersey NA 156,332 163,787 2 Mississippi NA 156,332 15,164 Nebraska 31,446 35,536 35,489 New Hampshire NA 156,332 163,787 New Ham		1998	
Alaska 10,230 9,732 11,052 Arkansas 28,079 23,267 20,254 Arkansas 26,517 30,701 34,811 1 California 414,718 345,939 336,241 22 Colorado NA 83,683 80,652 2 Connecticut 26,423 29,284 32,560 2 Delaware 6,102 6,837 7,617 7,617 District of Columbia 10,106 11,419 13,055 Florida 12,201 9,524 12,986 Georgia 77,890 71,303 88,666 2 Garasia 426 392 416 dah dahuaii 426 392 416 dah Garbaiiiiinsi 78,090 71,303 88,663 </th <th>tember</th> <th>August</th> <th>July</th>	tember	August	July
Jaska			
virzona 28,079 23,267 20,254 vikansas 26,517 30,701 34,811 1 california 414,718 345,939 336,241 22 colorado NA 83,683 80,652 2 colorado 10,106 11,419 13,055 olicida 12,201 9,524 12,986 deorgia 77,890 71,303 88,066 2 deorgia 77,890 71,303 88,066 2 dawaii 426 392 416 41 daho 11,379 10,803 10,501 linios 276,039 341,758 366,031 <	1,196	1,183	1,202
ukanasa 26,517 30,701 34,811 1 adlaifornia 414,718 345,939 336,241 22 colorado NA 83,683 80,652 2 connecticut 26,423 29,284 32,560 pomecticut 26,423 29,284 32,560 sistrict of Columbia 10,106 11,419 13,055 lorida 12,201 9,524 12,986 seorgia 77,890 71,303 88,066 2 seorgia 77,890 71,303 88,066 2 alawaii 426 392 416 416 daho 11,379 10,803 10,501 loridian 31,373 12,429 10,603 10,702 loridian <td>818</td> <td>648</td> <td>479</td>	818	648	479
Allifornia	932	894	1,062
olorado NA 83,683 80,652 2 connecticut 26,423 29,284 32,560 2 elaware 6,102 6,837 7,617 7,617 sirsirci of Columbia 10,106 11,419 13,055 5 lorida 12,201 9,524 12,986 2 eorgia 77,890 71,303 88,066 2 awaii 426 392 416 laho laho 11,379 10,803 10,501 lost linois 276,039 341,758 366,031 10 wa 49,029 56,991 60,538 1 ansas 55,239 48,703 58,377 1 entucky 38,147 43,704 48,015 1 airleacky 38,147 43,704 48,015 1 airleacky 38,147 43,704 48,015 1 airleacky 38,147 43,704 48,015 1	1,067	1,058	1,146
26,423 29,284 32,560 29,284 32,560 29,284 32,560 29,284 32,560 29,284 32,560 29,284 32,560 29,284 32,560 29,284 32,560 29,284 32,560 29,284 32,560 29,284 32,560 29,284 32,560 29,284 32,560 29,284 32,560 29,284 32,560 29,284 32,560 29,284 32,560 29,284 32,560 29,284 32,560 32,361 3	2,034	21,621	25,147
elaware 6,102 6,837 7,617 isstrict of Columbia 10,106 11,419 13,055 ordid 12,201 9,524 12,986 eorgia 77,890 71,303 88,066 2 awaii 426 392 416 abho 11,379 10,803 10,501 linois 276,039 341,758 366,031 10 diana 117,933 127,429 linois 49,029 56,991 60,538 1 ansas 55,239 48,703 58,377 1 arentucky 38,147 43,704 48,015 1 entucky 38,147 43,704 48,015 1 aine 639 694 674 aryland NA 54,933 62,540 line 33,359 38,558 44,841 1 aine 639 694 674 aryland NA 81,698 85,463 lichigan 229,952 274,007 289,408 7 ainesota 74,367 89,836 98,502 2 ississippi NA 19,808 23,672 lissouri 85,125 92,839 100,677 22 issouri 85,125 92,839 100,677 22 issouri 85,125 92,839 100,677 22 issouri 85,125 NA 14,523 15,164 ebraska 31,445 35,536 35,489 evada 21,795 18,410 16,258 ew Hampshire NA 156,332 163,787 ew Hampshire NA 156,333 37,494 40,42 ew Hampshire NA 156,333 37,4	2,690	R2,480	NA
Istrict of Columbia 10,106 11,419 13,055 12,201 9,524 12,986 eorgia 77,890 71,303 88,066 2 2416 392 416 310 311,758 366,031 10 311,379 10,803 10,501 311,379 314,758 366,031 310 311,7933 3127,429 11 311,7943 311,794 311,	937	848	1,028
istrict of Columbia	177	165	197
orida 12,201 9,524 12,986 eorgia 77,890 71,303 88,066 2 awaii 426 392 416 ah aho 11,379 10,803 10,501 nois 10,803 10,501 nois 10,803 10,501 nois 10,803 11,379 10,803 11,501 nois 276,039 341,758 366,031 10 nois 10,803 11,7429 10 nois 10,803 11,7429 10 nois 10,803 11,7429 10 nois 10,803 11,7429 10 10 nois 10,803 10,803 10	338	327	371
awaii	626	639	707
awaii	2 051	2 914	2.056
aho 11,379 10,803 10,501 iniois 276,039 341,758 366,031 10 diana NA 117,933 127,429 1 wa 49,029 56,991 60,538 1 ansas 55,239 48,703 58,377 1 entucky 38,147 43,704 48,015 1 usisiana 37,359 38,558 44,841 1 aine 639 694 674 674 aryland NA 54,933 62,540 1 aryland NA 81,698 85,463 1 ichigan 229,952 274,007 289,408 7 innesota 74,367 89,836 98,502 2 issouri 85,125 92,839 100,677 2 issouri 85,125 92,839 100,677 2 ontana NA 14,523 15,164 béraska 31,445 35,536	2,851	2,814	2,956
inois	41	41	45
diana NA 117,933 127,429 I wa 49,029 56,991 60,538 1 ansas 55,239 48,703 58,377 1 entucky 38,147 43,704 48,015 1 pulsiana 37,359 38,558 44,841 1 aine 639 694 674 aryland NA 54,933 62,540 I assachusetts NA 81,698 85,463 I ichigan 229,952 274,007 289,408 7 innesota 74,367 89,836 98,502 2 ississispipi 85,125 92,839 100,677 2 ontana NA 14,523 15,164 ebraska 31,445 35,536 35,489 evada 21,795 18,410 16,258 ew Hampshire NA 156,332 163,787 ew Mexico 23,612 23,095 23,008	316	292	402
wa 49,029 56,991 60,538 1 ansas 55,239 48,703 58,377 1 entucky 38,147 43,704 48,015 1 usuisiana 37,359 38,558 44,841 1 aine 639 694 674 aryland NA 54,933 62,540 I assachusetts NA 81,698 85,463 I ichigan 229,952 274,007 289,408 7 innesota 74,367 89,836 98,502 2 issouri 85,125 92,839 100,677 2 issouri 85,125 92,839 100,677 2 ontana NA 14,523 15,164 ebraska 31,445 35,536 35,489 evada 21,795 18,410 16,258 ew Hampshire NA 156,332 163,787 I ew Mexico 23,612 23,095 23,008	0,513 NA	10,437 NA	9,497 NA
ansas 55,239 48,703 58,377 1 entucky 38,147 43,704 48,015 1 laine 639 694 674 laine 639 694 674 laryland NA 54,933 62,540 1 laryland NA 81,698 85,463 1 lainesota 74,367 89,836 98,502 2 lississippi NA 19,808 23,672 1 lissouri 85,125 92,839 100,677 2 lissouri 85,125 92,839 100,677 2 lontana NA 14,523 15,164 ebraska 31,445 35,536 35,489 evada 21,795 18,410 16,258 ew Hampshire NA 5,062 5,178 ew Jersey NA 156,332 163,787 1 ew Mexico 23,612 23,095 23,008 ew York NA 275,246 NA 1 even York NA 275,246 NA 1 even York NA 28,860 265,128 5 klahoma 51,618 52,584 57,342 1 ennsylvania NA 185,298 201,680 1 hode Island NA 13,530 14,335 ennsylvania NA 185,298 201,680 1 exas 151,212 166,841 168,094 5 exas 151,212 166,841 168,094 5 ement 1,851 1,954 1,913 irginia 45,582 51,338 55,001 1 lassington NA 39,190 43,747 1 lassington NA 39,190 43,747			
entucky 38,147 43,704 48,015 1 pulsiana 37,359 38,558 44,841 1 aine 639 694 674 aryland 87,4933 62,540 aryland 81,698 85,463 1 ichigan 229,952 274,007 289,408 7 innesota 74,367 89,836 98,502 2 isssuri 85,125 92,839 100,677 2 ontana NA 14,523 15,164 ebraska 31,445 35,536 35,489 evada 21,795 18,410 16,258 ew Jersey NA 156,332 163,787 ew Mexico 23,612 23,095 23,008 ew York NA 275,246 NA 19,404 orth Carolina 39,413 37,379 44,042 orth Carolina 39,413 37,379 44,042 orth Carolina 39,413 37,379 44,042 orth Dakota 7,315 8,381 8,887 hio NA 248,660 265,128 5 klahoma 51,618 52,584 57,342 1 regon NA 185,298 20,1680 1 hode Island NA 13,530 14,335 outh Dakota 8,290 9,592 9,850 exas 151,212 166,841 168,094 5 tah 36,633 37,414 36,177 1 ermont 1,851 1,954 1,913 erginia 45,582 51,338 55,001 1 ashington NA 39,190 43,747	1,435	1,453	1,622
Datisiana 37,359 38,558 44,841 1 1 1 1 1 1 1 1 1	1,562	1,613	1,783
aine 639 694 674 aryland NA 54,933 62,540 1 assachusetts NA 81,698 85,463 1 ichigan 229,952 274,007 289,408 7 innesota 74,367 89,836 98,502 2 ississippi NA 19,808 23,672 1 issouri 85,125 92,839 100,677 2 ontana NA 14,523 15,164 ebraska 31,445 35,536 35,489 evada 21,795 18,410 16,258 ew Hampshire NA 5,062 5,178 ew Jersey NA 156,332 163,787 1 ew Mexico 23,612 23,095 23,008 ew York NA 275,246 NA 1 orth Carolina 39,413 37,379 44,042 orth Dakota 7,315 8,381 8,887 hio NA 248,660 265,128 5 klahoma 51,618 52,584 57,342 1 regon NA 135,298 201,680 1 hode Island NA 13,530 14,335 outh Carolina 20,098 17,997 22,103 outh Carolina 8,290 9,592 9,850 ennesylvania NA 13,530 14,335 outh Carolina 8,290 9,592 9,850 ennessee NA 44,187 52,310 1 exas 151,212 166,841 168,094 5 tash 36,633 37,414 36,177 1 eremont 1,851 1,954 1,913 irginia 45,582 51,338 55,001 1 fashington NA 39,190 43,747	1,167	1,104	1,321
Staryland	1,703	1,574	1,774
Na	27	25	22
assachusetts NA 81,698 85,463 I ichigan 229,952 274,007 289,408 7 innesota 74,367 89,836 98,502 2 ississippi NA 19,808 23,672 I issouri 85,125 92,839 100,677 2 ontana NA 14,523 15,164 2 ebraska 31,445 35,536 35,489 2 evada 21,795 18,410 16,258 3 ew Hampshire NA 156,332 163,787 I ew Jersey NA 156,332 163,787 I ew Mexico 23,612 23,095 23,008 23,008 ew York NA 275,246 NA I orth Carolina 39,413 37,379 44,042 2 orth Dakota 7,315 8,381 8,887 5 hio NA 248,660 265,128 5	NA	1,854	1,828
ichigan 229,952 274,007 289,408 7 innesota 74,367 89,836 98,502 2 ississispipi NA 19,808 23,672 1 issouri 85,125 92,839 100,677 2 ontana NA 14,523 15,164 4 ebraska 31,445 35,536 35,489 4 evada 21,795 18,410 16,258 4 ew Hampshire NA 156,332 163,787 1 ew Jersey NA 156,332 163,787 1 ew Hexico 23,612 23,095 23,008 4 ew York NA 275,246 NA 1 orth Carolina 39,413 37,379 44,042 44,042 orth Dakota 7,315 8,381 8,887 hio NA 248,660 265,128 5 klahoma 51,618 52,584 57,342 1 regon	NA	2,347	2,842
Ilinnesota	7,533	6,740	7,275
Section	2,683	2,465	2,537
ontana NA 14,523 15,164 ebraska 31,445 35,536 35,489 evada 21,795 18,410 16,258 ew Hampshire NA 5,062 5,178 ew Hew Hampshire NA 156,332 163,787 ew Jersey NA 156,332 163,787 ew Mexico 23,612 23,095 23,008 ew York NA 275,246 NA NA orth Carolina 39,413 37,379 44,042	NA	NA NA	^R 714
Iontana NA 14,523 15,164 ebraska 31,445 35,536 35,489 evada 21,795 18,410 16,258 ew Hampshire NA 5,062 5,178 ew Hampshire NA 156,332 163,787 ew Jersey NA 156,332 163,787 ew Mexico 23,612 23,095 23,008 ew York NA 275,246 NA orth Carolina 39,413 37,379 44,042 orth Dakota 7,315 8,381 8,887 hio NA 248,660 265,128 5 klahoma 51,618 52,584 57,342 1 regon NA 23,589 23,515 2 ennsylvania NA 185,298 201,680 1 hode Island NA 13,530 14,335 1 outh Carolina 20,098 17,997 22,103 2 outh Dakota 8,290 9,592 </td <td>0.040</td> <td>0.405</td> <td>0.070</td>	0.040	0.405	0.070
Strict S	2,619	2,185	2,670
evada 21,795 19,410 16,258 ew Hampshire NA 5,062 5,178 ew Jersey NA 156,332 163,787 1 ew Mexico 23,612 23,095 23,008 23,008 1 ew York NA 275,246 NA 1 NA 1 0 NA 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	484	488	481
ew Hampshire NA 5,062 5,178 ew Jersey NA 156,332 163,787 1 ew Mexico 23,612 23,095 23,008 23,008 ew York NA 275,246 NA 1 orth Carolina 39,413 37,379 44,042 2 orth Dakota 7,315 8,381 8,887 hio NA 248,660 265,128 5 klahoma 51,618 52,584 57,342 1 regon NA 23,589 23,515 2 ennsylvania NA 185,298 201,680 1 hode Island NA 13,530 14,335 1 outh Carolina 20,098 17,997 22,103 2 outh Dakota 8,290 9,592 9,850 2 ennessee NA 44,187 52,310 1 exas 151,212 166,841 166,994 5 stah 36,633	885	1,036	1,014
ew Jersey	824	.813	977
ew Mexico 23,612 23,095 23,008 ew York NA 275,246 NA 275,246 orth Carolina 39,413 37,379 44,042 orth Dakota 7,315 8,381 8,887 hio NA 248,660 265,128 5 klahoma 51,618 52,584 57,342 1 regon NA 23,589 23,515 ennsylvania NA 185,298 201,680 hode Island NA 13,530 14,335 outh Carolina 20,098 17,997 22,103 outh Carolina 8,290 9,592 9,850 ennessee NA 44,187 52,310 1 exas 151,212 166,841 168,094 5 tah 36,633 37,414 36,177 1 ermont 1,851 1,954 1,913 irginia 45,582 51,338 55,001 1 reginia NA 39,190 43,747	159	NA	169
ew York NA 275,246 NA NA PA orth Carolina 39,413 37,379 44,042 44,042 44,042 44,042 54,042	NA	4,528	4,845
27,240 2	840	845	822
orth Carolina 39,413 37,379 44,042 orth Dakota 7,315 8,381 8,887 hio NA 248,660 265,128 5 klahoma 51,618 52,584 57,342 1 regon NA 23,589 23,515 2 ennsylvania NA 185,298 201,680 1 hode Island NA 13,530 14,335 1 outh Carolina 20,098 17,997 22,103 2 outh Dakota 8,290 9,592 9,850 9,850 2 ennessee NA 44,187 52,310 1 1 20,23 1 <td< td=""><td>NA</td><td>^R7,468</td><td>R15,038</td></td<>	NA	^R 7,468	R15,038
orth Dakota 7,315 8,381 8,887 hio NA 248,660 265,128 5 klahoma 51,618 52,584 57,342 1 regon NA 23,589 23,515 ennsylvania NA 185,298 201,680 1 hode Island NA 13,530 14,335 outh Carolina 20,098 17,997 22,103 outh Dakota 8,290 9,592 9,850 ennessee NA 44,187 52,310 1 exas 151,212 166,841 168,094 5 tah 36,633 37,414 36,177 1 remont 1,851 1,954 1,913 reginia 45,582 51,338 55,001 1 ashington NA 39,190 43,747 1	963	905	1,044
Second S	202	208	235
Second S	5,905	7,246	NA
regon NA 23,589 23,515 ennsylvania NA 185,298 201,680 1 hode Island NA 13,530 14,335 buth Carolina 20,098 17,997 22,103 buth Dakota 8,290 9,592 9,850 ennessee NA 44,187 52,310 1 exas 151,212 166,841 168,094 5 sah 36,633 37,414 36,177 1 ermont 1,851 1,954 1,913 rginia 45,582 51,338 55,001 1 ashington NA 39,190 43,747 1		,	1 600
NA	1,494	1,430	1,633
hode Island NA 13,530 201,000 hode Island NA 13,530 14,335 201,000 hode Island NA 13,530 14,335 20 21,030 20 21,030 20 21,030 20 21,030 20 21,030 20 21,030 20 21,030 20 21,030 20 21,030 20 21,030 20 21,030 20 21,030 20 21,030 20 21,030 20 21,030 20 20 21,030 20 20 20 20 20 20 20 20 20 20 20 20 20	760 NA	679 NA	944
bouth Carolina 20,098 17,997 22,103 bouth Dakota 8,290 9,592 9,850 ennessee NA 44,187 52,310 1 exas 151,212 166,841 168,094 5 tah 36,633 37,414 36,177 1 ermont 1,851 1,954 1,913 rginia 45,582 51,338 55,001 1 'ashington NA 39,190 43,747 1	436	438	5,283 462
buth Dakota 8,290 9,592 9,850 ennessee NA 44,187 52,310 1 exas 151,212 166,841 168,094 5 tah 36,633 37,414 36,177 1 ermont 1,851 1,954 1,913 rginia 45,582 51,338 55,001 1 /ashington NA 39,190 43,747 1			
ennessee	491	463	474
exas 151,212 166,841 168,094 5 tah 36,633 37,414 36,177 1 ermont 1,851 1,954 1,913 irginia 45,582 51,338 55,001 1 /ashington NA 39,190 43,747 1	248	227	274
tah	1,172	1,111	1,186
ermont	5,930	5,810	5,436
rginia	1,913	1,332	1,264
rginia	114	57	56
/ashington	1,443	1,064	1,425
asimigton	NA	NA	NA NA
	NA	NA	NA
/isconsin	3,190 303	3,218 331	2,415 NA
	9,841	R115,580	R129,421

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1996-1998 (Million Cubic Feet) — Continued

State	1998							
	June	May	April	March	February	January		
	4.000	0.005	4.040	7.400	0.000	0.000		
labama	1,386	2,335	4,610	7,480	9,222	9,689		
laska	628	933	1,239	1,529	1,716	2,240		
izona	1,375	2,092	3,694	5,323	5,604	7,103		
kansas		1,731	2,270	6,069	6,668	5,336		
alifornia	33,207	38,118	54,072	62,006	76,210	82,302		
olorado	1,592	7,546	11,118	15,570	16,176	18,860		
nnecticut	1,195	1,878	3,638	5,051	5,585	6,263		
elaware	252	450	846	1,248	1,360	1,408		
strict of Columbia	435	636	1,195	2,032	2,365	2,409		
orida	817	1,017	1,631	2,044	2,251	2,470		
eorgia	3,186	3,558	8,015	16,312	18,031	20,167		
waii	,	47	49	49	52	55		
aho	666	904	1,560	2,032	2,232	2,975		
nois	11,529	14,790	33,014	54,697	53,146	78,417		
liana		5,270	NA NA	23,358	20,668	26,868		
va	1,435	2,807	5,821	10,634	10,261	13,560		
insas	2,155	3,803	7,378	11,857	11,594	13,494		
entucky	,	1,961	3,937	8,164	8,515	10,618		
puisiana	,	2,310	3,736	7,184	7,953	9,311		
aine	31	45	92	120	124	153		
andand	2.087	2.992	5.696	9.577	11.052	12,609		
aryland	2,007 NA	2,992 NA	10,697	- , -	15,644	16,948		
assachusetts			,	14,514	,	,		
chigan	,	13,888	31,736	47,397	48,977	56,636		
nnesotassissippi	2,735 ^R 796	3,836 ^R 1,231	7,148 ^R 2,243	16,337 NA	15,023 4,564	21,603 NA		
	0.400		10.105	47.700	40.000	00.070		
issouri	3,128	4,980 NA	10,435	17,763	18,966	22,378		
ontana			1,676	2,429	2,404	3,418		
ebraska	1,199	1,961	4,324	6,482	6,642	7,902		
evada	1,487	1,884	2,826	3,809	4,149	5,025		
w Hampshire	238	378	697	845	1,010	1,140		
w Jersey	5,736	11,735	17,514	26,429	29,313	30,800		
ew Mexico		1,270	2,589	4,740	4,337	7,884		
w York	NA	NA	30,102	42,752	46,717	^R 53,322		
orth Carolina	1,192	2,243	5,018	7,535	9,710	10,803		
orth Dakota	292	490	953	1,464	1,561	1,910		
nio	8,509	11,550	24,861	44,211	43,910	50,527		
dahoma	1,855	3,094	5,854	10,832	11,652	13,774		
egon	1,641	2,135	ŇA	ŇA	4,581	6,117		
nnsylvania	6,505	9,880	NA	32,526	34,714	31,526		
node Island	622	1,001	NA	2,402	2,720	2,781		
uth Carolina	562	1,071	2,421	4,006	5,177	5,432		
outh Dakota		512	1,127	1,738	1,666	2,196		
ennessee	1,410	2,674	5,170	9,938	9,546	NA NA		
xas	D	^R 9,148	R15,463	R28,005	R34,096	^R 41,199		
ah		2,243	4,853	6,482	8,193	8,396		
rmont	77	118	266	340	397	427		
rginia		2,509	5,172	9,618	11,067	11,546		
ashington		2,509 NA	NA	NA	NA	NA		
est Virginia		NA	2,785	4,553	4,906	5,039		
0								
sconsin		4,080	9,198	17,130	15,618	22,087 NA		
yoming	503	704	1,182	1,566	1,560			
otal	R152,469	R220,029	R406,751	R639,059	^R 683,127	R803,496		

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1996-1998 (Million Cubic Feet) — Continued

State	1997							
	Total	December	November	October	September	August		
Makassa	40,400	7.040	2.077	4.440	4.054	4.040		
\labama	-,	7,942	3,977	1,440	1,254	1,242		
Naska	,	2,162	1,684	1,569	743	418		
rizona		4,764	1,973	1,053	1,124	907		
ırkansas		6,369	4,013	1,345	948	917		
California	478,904	68,486	39,940	24,538	21,448	20,643		
olorado		17,463	10,147	4,290	2,714	2,590		
Connecticut	40,562	5,977	3,672	1,629	1,014	914		
elaware	8,972	1,213	671	252	184	179		
istrict of Columbia	15,807	2,421	1,414	553	393	372		
lorida	13,117	1,837	1,074	681	631	670		
eorgia	114,383	19,892	16,495	6,693	3,158	2,930		
lawaii		45	42	39	40	41		
daho		2,371	1,427	638	320	294		
linois		69,718	56,299	29,455	11,690	10,102		
ndiana	,	25,914	17,338	7,954	3,467	2,968		
	,	,	,	,	,	,		
owa	- /	12,051	8,606	4,048	1,646	1,479		
ansas	, -	10,323	8,236	2,153	1,485	1,469		
entucky		11,175	8,091	3,063	1,451	1,073		
ouisiana	- ,	7,960	4,176	2,016	1,710	1,716		
laine	1,009	142	107	66	30	26		
laryland	77,500	11,130	7,894	3,543	2,067	1,799		
lassachusetts	112,308	15,677	10,149	4,784	2,557	2,484		
lichigan	,	50,037	37,942	17,853	8,775	7,269		
linnesota	,	17,435	15,098	6,504	2,542	2,234		
lississippi		4,355	2,561	902	778	761		
Ainn a curi	107.605	40.044	12.000	2.050	0.600	2.404		
Assouri		19,041	12,090	3,656	2,623	2,401		
lontana	,	3,207	2,038	1,234	510	449		
lebraska	,	5,787	4,399	1,382	936	939		
levadalevada levada l	,	3,884 933	1,925 616	1,024 327	805 165	781 155		
iew Hampsilie	0,939	933	010	321	103	100		
lew Jersey	216,925	31,134	20,208	9,250	5,397	4,726		
lew Mexico	36,623	8,217	4,095	1,217	836	849		
lew York	375,641	48,074	34,936	17,385	9,878	10,267		
lorth Carolina	52,894	9,202	4,875	1,438	934	898		
lorth Dakota		1,423	1,133	434	191	168		
hio	354.543	50,352	36,474	19,056	7,124	6,112		
Oklahoma	/	11,025	6,186	1,968	1,549	1,521		
Pregon	,	4,684	2.713	1,536	829	758		
Pennsylvania	,	37,709	26,561	12,927	6,214	5,236		
thode Island		2,509	1,464	659	473	443		
	-, -	,	,					
outh Carolina	40,000	4,683	2,424	637	471	449		
outh Dakota		1,734	1,339	537	261	233		
ennessee		11,511	6,602	1,829	1,182	1,075		
exas		37,410	21,561	9,175	7,140	6,789		
tah	58,108	10,376	6,018	4,299	1,957	1,466		
ermont	2,631	345	214	118	59	52		
irginia		12,127	7,452	2,989	1,630	1,467		
/ashington		11,405	7,594	3,623	2,002	1,791		
/est Virginia		6,017	4,061	1,737	776	598		
/isconsin		19,045	16,127	8,106	2,957	2,535		
lyoming		2,337	1,179	617	320	2,535		
Total	4,983,772	731,030	497,310	234,223	129,388	117,900		

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1996-1998

State	1997								
State	July	June	Мау	April	March	February			
lahama	1,397	4.600	2.649	2.404	5 244	0.420			
labamalabama laska	463	1,609 508	2,648 789	3,191 1,177	5,344 1,767	9,129 1,618			
				,	,	,			
rizona	1,015	1,150	1,566	2,251	4,221	5,075			
rkansasalifornia	1,027 26,444	1,239 23,226	2,322 28,268	3,290 38,704	4,937 47,664	7,745 65,672			
olorado	2,965	4,130	8,492	10,975	15,768	17,485			
onnecticut	961	1,398	2,362	4,435	5,243	6,622			
elaware	195	320	560	948	1,272	1,621			
istrict of Columbia	419	562	944	1,316	2,049	2,655			
lorida	709	773	852	914	1,154	1,866			
eorgia	3,180	3,341	3,816	8,183	8,959	16,288			
awaii	43	41	42	41	46	49			
aho	345	433	938	1,463	1,907	2,540			
inois	10,370	11,606	26,059	41,167	61,395	69,319			
diana	2,832	4,924	9,417	15,114	20,542	26,114			
wa	1,599	2,107	3,939	7,015	9,584	11,951			
ansas	1,688	1,506	3,266	5,839	7,997	11,040			
entucky	1,499	1,575	2,959	4,893	7,304	8,981			
ouisiana	1,746	2,108	2,866	3,648	5,700	9,272			
aine	21	34	56	85	142	133			
aryland	1,906	2,677	4,215	6,912	9,414	11,954			
assachusetts	2,834	4,374	6,937	12,131	15,138	17,795			
ichigan	4,751	12,017	26,982	38,297	51,355	57,608			
nnesota	2,385 815	3,180 926	6,467 1,472	11,143 1,916	16,686 3,058	19,703 4,999			
ississippi		920	1,472	1,910	3,036	4,333			
issouri	2,714	3,660	6,460	10,993	15,385	23,276			
ontana	413	634	1,147	2,003	2,477	3,025			
ebraska	1,015	1,376	3,176	4,353	6,229	7,825			
evada	891	985	1,401	2,027	3,187	3,843			
ew Hampshire	160	263	465	744	913	1,136			
ew Jersey	5,214	6,599	11,505	20,284	32,686	33,410			
ew Mexico	820	239	1,965	1,513	3,836	5,668			
ew York	9,719	14,469	24,082	37,597	51,213	56,003			
orth Carolina	1,072	1,596	2,986	4,080	5,800	9,983			
orth Dakota	190	295	688	1,133	1,527	1,931			
hio	7,425	14,630	21,260	32,544	43,523	51,748			
klahoma	1,680	2,107	3,860	6,164	9,077	12,696			
regon	881	1,069	1,883	3,130	4,242	5,128			
ennsylvania	5,254	7,510	15,416	25,082	33,473	41,208			
hode Island	480	727	1,171	1,994	2,462	2,891			
outh Carolina	517	709	1,243	1,794	2,619	5,046			
outh Dakota	248	368	784	1,250	1,625	2,089			
ennessee	1,115	1,652	3,007	4,776	6,666	11,997			
exas	7,599	8,451	11,595	15,606	25,245	36,893			
ah	1,502	1,602	1,821	4,876	5,945	8,367			
ermont	57	97	189	283	383	416			
rginia	1,589	2,042	4,201	6,622	9,068	11,670			
ashington	1,995	2,451	4,487	3,680	6,526	7,525			
est Virginia	492	952	2,223	3,386	4,273	5,572			
isconsin	2,862	2,948	7,413	11,047	17,278	19,211			
yoming	295	397	1,080	1,062	1,550	1,667			
otal	127,805	163,591	283,739	433,073	605,856	757,457			

R = Revised Data.
NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1996-1998 (Million Cubic Feet)

State	YTD	YTD	YTD		1998	
State	1998	1997	1996	September	August	July
labama	22,724	24,276	22,485	1,053	981	1,030
aska	16,138	18,530	19,000	1,396	1,208	1,190
izona	24,133	22,731	21,518	1,730	1,721	1,890
kansas	ŃA	21,392	23,311	2,129	2,218	2,253
alifornia	226,490	186,186	170,193	26,660	30,322	27,131
olorado	NA	50,622	50,773	2,714	R2,329	NA
onnecticut	31,539	30,458	29,372	2,039	2,178	2,456
elaware	4,309	4,964	5,094	179	176	190
strict of Columbia	13,340	13,385	12.023	837	847	871
orida	29,364	27,249	31,845	2,501	2,575	2,630
and a	40.054	20.400	4F 106	2.642	2.640	0.757
eorgia	42,854	39,498	45,126	2,612	2,649	2,757
awaii	1,598	1,398	1,626	171	187	169
aho	8,449	8,209	8,180	388	381	407
nois	124,506	140,619	148,324	7,349	6,672	5,951
diana	ŇA	57,909	61,853	NA	NA	ŃA
va	31,638	34,239	38,064	1,194	1,199	1,353
ınsas	33,953	30,096	41,118	1,438	1,836	1,914
entucky	23,885	25,880	28,400	1,143	1,134	1,061
puisiana	NA NA	19,079	20,237	1,829	1,913	1,799
aine	1,790	1,874	1,804	78	74	75
aryland	NA	35,464	33,289	NA	2,147	2,188
	NA	78,845	69,284	NA	3,407	4,054
assachusetts	440.000	,	,	F 700	,	,
chigan	119,962	137,563	146,309	5,790	5,841	5,301
nnesotassissippi	57,097 NA	64,014 15,884	67,293 17,173	2,747 NA	2,311 NA	2,026 R1,371
		,	,			,
ssouri	47,909	51,350	53,503	2,195	3,039	2,210
ontana	ŇA	9,794	10,192	407	405	400
ebraska	21,351	25,731	29,344	935	848	1,070
evada	17,411	16,296	14,918	1,090	1,052	1,304
ew Hampshire	ŇA	5,365	5,145	222	ŇA	228
ew Jersey	NA	121,123	111,281	NA	6,079	6,385
ew Mexico	22,268	22,179	19,098	1.242	1,214	R1,174
ew York	NA NA	237,865	NA	NA	R15,604	R12.007
orth Carolina	29,031	27,170	30,149	1,678	1,650	1,502
orth Dakota	8,162	7,843	8,477	1,192	354	285
io.	NA NA	121.200	136.847	4.040	4.070	NA
nio		131,268	/ -	4,919	4,070	
klahoma	34,715 NA	33,298	34,965	1,756	1,812	1,837
egon	NA NA	18,723	18,383	1,028	905 NA	1,047
ennsylvania	NA NA	100,940	109,042	4,436		4,607
node Island	NA	9,041	9,388	472	195	484
outh Carolina	15,268	13,998	15,080	1,055	1,019	1,013
outh Dakota	6,692	7,541	7,978	269	263	283
ennessee	ŇA	39,511	42,952	2,527	2,366	2,507
xas	174,749	158,494	137,480	26,113	25,614	18,195
ah	20,689	20,770	20,066	1,026	840	845
rmont	2,138	2,182	2,038	125	100	102
rginia	43,913	43,722	42,634	2,561	1,971	2,739
ashington	NA NA	29,457	34,327	NA NA	NA NA	NA NA
	NA					
est Virginia		18,217	20,511	1,622	1,575	5,166
isconsinyoming	58,866 NA	60,668 8,155	64,725 6,032	4,937 324	^R 3,410 ^R 232	3,063 NA
otal		2,311,064	2,283,280	158,946	R160,093	R152,757
	2,249,408					

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1996-1998 (Million Cubic Feet) — Continued

State	1998							
State	June	May	April	March	February	January		
labama	1,118	3,768	2,713	3,522	4,010	4,529		
aska	1,274	1,684	1,911	2,251	2,340	2,883		
izona	2,073	2,495	3,013	3,548	3,534	4,129		
kansas	ŇA	1,432	1,728	3,843	4,075	4,781		
alifornia	18,132	22,410	23,269	19,321	28,787	30,457		
olorado	3,415	4,768	6,738	9,008	9,159	10,507		
onnecticut	2,151	2,124	4,294	4.999	5,540	5,757		
elaware	226	320	556	829	899	935		
strict of Columbia	913	1,085	1,830	2,032	2,382	2,542		
orida	2,748	3,112	3,701	3,961	3,984	4,152		
eorgia	2,725	3,248	4,882	7,391	8,120	8,471		
ıwaii	181	169	174	172	179	196		
aho	537	689	1,077	1,423	1,570	1,977		
nois	6,702 NA	6,961	15,326 NA	22,556	22,455	30,533		
diana	****	3,258	110	11,063	10,460	12,876		
wa	1,237	1,566	3,605	7,584	5,962	7,938		
nsas	1,722	2,093	3,381	8,014	6,177	7,378		
entucky	1,195	1,505	2,490	4,636	5,053	5,668		
ouisiana	ŇA	1,629	2,048	5,056	4,998	4,511		
aine	90	122	255	332	342	422		
aryland	2,507	2,532	3,668	6,091	6,474	6,659		
assachusetts	5,209	5,789	8,771	11,570	12,943	13,716		
chigan	6,297	8,530	15,784	22,837	23,664	25,919		
nnesota	3,003	3,208	5,685	11,726	11,133	15,257		
ssissippi	R1,298	R1,339	R1,789	R2,866	3,310	R3,264		
issouri	2,352	2,978	5,545	8,978	9,467	11,144		
ontana	839	NA NA	1,029	1,527	1,459	2,178		
ebraska	856	1,690	2,786	4,027	4,237	4,903		
		,	,	,	,	,		
evadaewada hampshire	1,587 NA	1,876 375	2,207 710	2,642 869	2,575 1,051	3,078 1,167		
					,	,		
ew Jersey	6,873	10,233	11,748	19,826	18,713	20,200		
ew Mexico	R1,096	^R 1,832	^R 2,727	^R 3,814	R3,839	^R 5,330		
ew York	R13,919	NA	20,716	NA	ŇA	NA		
rth Carolina	1,658	2,053	3,326	4,879	5,791	6,495		
orth Dakota	312	507	953	1,372	1,434	1,753		
io	5,165	7,134	13,211	21,443	23,991	27,046		
lahoma	1,826	2,291	4,018	6,347	6,859	7,969		
egon	1,428	1,618	ŃA	ŃA	3,308	3,889		
ennsylvania	4,906	6,114	NA	17,790	19,674	21,571		
node Island	495	^R 680	NA	1,492	1,620	1,786		
outh Carolina	1,063	1,209	1,732	2,440	2,781	2,955		
outh Dakota	285	539	806	1,335	1,292	1,621		
nnessee	2,646	2,993	4,714	7,027	6,063	NA NA		
xas	11,161	13,616	14,839	20,104	20,826	24,280		
ah	1,154	1,510	2,749	3,787	4,235	4,544		
rmont	110	116	281	381	436	487		
	2,682	3,672	5,338	7,878	8,398	8,673		
rginia	∠,68∠ NA	3,672 NA	5,338 NA	7,878 NA	8,398 NA	8,673 NA		
ashington	NA NA							
est Virginia		1,709	2,235	3,146	3,310	3,564		
sconsin	3,471	3,801	6,632	11,019	9,845	12,688		
yoming	409	545	^R 861	1,128	1,288	NA		
otal	R143,098	R175,229	R254,025	R368,772	R389,827	R446,662		

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1996-1998 (Million Cubic Feet) — Continued

State	1997								
State	Total	December	November	October	September	August			
		0 = 40							
labama	32,362	3,743	2,437	1,903	2,075	2,622			
aska	26,908	3,147	2,658	2,574	1,594	1,340			
rizona	30,284	3,381	2,269	1,751	1,836	1,767			
rkansas	29,443	3,989	2,713	1,347	1,129	1,128			
alifornia	256,044	26,978	21,157	19,602	18,459	18,696			
olorado	69,088	9,717	6,177	2,558	2,372	2,118			
onnecticut	42,680	5,801	3,854	2,512	1,566	1,762			
elaware	6,610	845	513	286	245	186			
strict of Columbia	18,018	2,374	1,354	899	852	853			
orida	36,765	3,719	3,112	2,621	2,495	2,589			
eorgia	57,227	8,027	6,140	3,554	2,719	2,597			
awaii	1,751	165	37	152	148	143			
	11,469	1,657	982	585	411	356			
aho									
nois	202,871	27,076	22,863	12,292	6,426 2,175	5,809			
diana	81,813	10,689	8,637	4,518	2,175	2,070			
wa	50,194	7,208	5,707	3,037	1,359	1,114			
ansas	41,238	5,532	3,673	1,936	1,567	1,999			
entucky	38,632	6,154	4,176	2,417	1,249	948			
ouisiana	25,629	3,073	2,048	1,414	1,353	1,307			
aine	2,713	375	289	176	91	78			
aryland	49,859	6,536	4,962	2,839	2,283	2,070			
assachusetts	105,818	11.523	8,546	6,898	5,365	5,635			
ichigan	192,300	25,857	19,047	9,791	5,997	5,688			
innesota	92,263	12,318	10,721	5,179	2,408	2,369			
ississippi	22,073	2,934	2,028	1,224	924	1,309			
					0.405				
lissouri	69,869	9,547	6,192	2,741	2,195	2,063			
lontana	13,926	2,014	1,306	797	425	385			
ebraska	33,853	3,454	2,812	1,855	1,477	2,295			
evada	22,024	2,580	1,806	1,276	1,198	1,151			
ew Hampshire	7,489	1,010	703	411	249	217			
ew Jersey	168,761	23,161	16,022	8,454	7,142	6,699			
ew Mexico	31,501	4,831	2,949	1,384	1,206	1,185			
ew York	321,447	34,705	27,141	21,151	17,307	18,574			
orth Carolina	38,021	5,508	3,434	1,908	1,713	1,592			
orth Dakota	10,875	1,339	1,129	559	317	264			
hio	184,103	25.092	17 752	9,727	4,948	1 255			
	,	- /	17,752 3,675	,	,	4,355			
klahoma	45,195	6,049	3,675	2,064	1,764	1,733			
regon	25,500	3,352	2,023	1,367	1,026	915			
ennsylvania	144,134	19,731	14,064	9,348	5,000	4,248			
hode Island	12,306	1,413	1,212	637	460	399			
outh Carolina	19,561	2,638	1,757	1,167	1,884	1,004			
outh Dakota	10,426	1,311	1,021	549	334	249			
ennessee	55,130	7,939	5,015	2,653	2,078	1,921			
exas	216,347	24,323	19,327	14,189	14,479	14,856			
ah	31,257	5,152	3,187	2,020	1,124	943			
ermont	3,051	403	282	184	108	80			
rginia	61,932	9,233	5,543	3,397	2,334	2,476			
ashington	46,802	6,666	7,903	2,660	2,041	1,625			
					,				
est Virginia	25,918	3,386	2,809	1,500	1,106	1,137			
isconsin	88,783	12,473	10,180	5,408	2,738	2,806			
yoming	10,767	1,077	967	555	316	287			
otal	3,223,030	411,204	306,311	190,027	142,068	140,017			

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1996-1998

Colorado Connecticut Delaware District of Columbia Florida Georgia Hawaii daho Illinois Indiana Owa Kansas Kentucky Louisiana Maine Maryland Massachusetts Michigan Mississippi Missouri Montana Nebraska Nevada New Hampshire New Jersey New Mexico	2,947 1,404 1,936 1,127 17,911 2,354 2,145 209 783 2,516 2,677 156 373 5,970 1,943 1,305 2,452 1,157 1,474 72 2,237 5,442	1,642 1,428 1,973 1,214 16,438 2,955 2,237 285 951 2,851 2,776 152 399 6,052 3,992 1,238 1,549 1,166 1,530 92 2,315	1,901 1,813 2,138 1,647 18,750 4,847 2,658 427 1,373 2,837 3,192 148 686 10,472 6,203 2,382 2,113 1,863 1,616 152	2,089 2,225 2,559 2,166 20,672 6,434 4,075 638 1,739 2,950 4,136 155 1,041 16,533 6,471 3,878 3,188 2,878 1,933	2,623 2,861 3,148 3,142 23,521 8,355 4,820 871 2,183 3,227 4,853 160 1,345 23,087 9,135 5,789 4,707 4,049	4,120 2,529 3,520 4,724 25,728 10,201 5,372 1,062 2,316 3,765 7,940 168 1,784 29,599 11,616 7,031 6,465 5,429
Alaska Arizona Arkansas California Colorado Connecticut Delaware District of Columbia Florida Georgia Jawaii Jawai	1,404 1,936 1,127 17,911 2,354 2,145 209 783 2,516 2,677 156 373 5,970 1,943 1,305 2,452 1,157 1,474 72 2,237 5,442	1,428 1,973 1,214 16,438 2,955 2,237 285 951 2,851 2,776 152 399 6,052 3,992 1,238 1,549 1,166 1,530 92	1,813 2,138 1,647 18,750 4,847 2,658 427 1,373 2,837 3,192 148 686 10,472 6,203 2,382 2,113 1,863 1,616	2,225 2,559 2,166 20,672 6,434 4,075 638 1,739 2,950 4,136 155 1,041 16,533 6,471 3,878 3,188 2,878 1,933	2,861 3,148 3,142 23,521 8,355 4,820 871 2,183 3,227 4,853 160 1,345 23,087 9,135 5,789 4,707 4,049	2,529 3,520 4,724 25,728 10,201 5,372 1,062 2,316 3,765 7,940 168 1,784 29,599 11,616
laska	1,404 1,936 1,127 17,911 2,354 2,145 209 783 2,516 2,677 156 373 5,970 1,943 1,305 2,452 1,157 1,474 72 2,237 5,442	1,428 1,973 1,214 16,438 2,955 2,237 285 951 2,851 2,776 152 399 6,052 3,992 1,238 1,549 1,166 1,530 92	1,813 2,138 1,647 18,750 4,847 2,658 427 1,373 2,837 3,192 148 686 10,472 6,203 2,382 2,113 1,863 1,616	2,225 2,559 2,166 20,672 6,434 4,075 638 1,739 2,950 4,136 155 1,041 16,533 6,471 3,878 3,188 2,878 1,933	2,861 3,148 3,142 23,521 8,355 4,820 871 2,183 3,227 4,853 160 1,345 23,087 9,135 5,789 4,707 4,049	2,529 3,520 4,724 25,728 10,201 5,372 1,062 2,316 3,765 7,940 168 1,784 29,599 11,616
rizona rkansas california colorado connecticut delaware sistrict of Columbia clorida c	1,936 1,127 17,911 2,354 2,145 209 783 2,516 2,677 156 373 5,970 1,943 1,305 2,452 1,157 1,474 72 2,237 5,442	1,973 1,214 16,438 2,955 2,237 285 951 2,851 2,776 152 399 6,052 3,992 1,238 1,549 1,166 1,530 92	2,138 1,647 18,750 4,847 2,658 427 1,373 2,837 3,192 148 686 10,472 6,203 2,382 2,113 1,863 1,616	2,559 2,166 20,672 6,434 4,075 638 1,739 2,950 4,136 155 1,041 16,533 6,471 3,878 3,188 2,878 1,933	3,148 3,142 23,521 8,355 4,820 871 2,183 3,227 4,853 160 1,345 23,087 9,135 5,789 4,707 4,049	3,520 4,724 25,728 10,201 5,372 1,062 2,316 3,765 7,940 168 1,784 29,599 11,616 7,031 6,465
rkansas alifornia	1,127 17,911 2,354 2,145 209 783 2,516 2,677 156 373 5,970 1,943 1,305 2,452 1,157 1,474 72 2,237 5,442	1,214 16,438 2,955 2,237 285 951 2,851 2,776 152 399 6,052 3,992 1,238 1,549 1,166 1,530 92	1,647 18,750 4,847 2,658 427 1,373 2,837 3,192 148 686 10,472 6,203 2,382 2,113 1,863 1,616	2,166 20,672 6,434 4,075 638 1,739 2,950 4,136 155 1,041 16,533 6,471 3,878 3,188 2,878 1,933	3,142 23,521 8,355 4,820 871 2,183 3,227 4,853 160 1,345 23,087 9,135 5,789 4,707 4,049	4,724 25,728 10,201 5,372 1,062 2,316 3,765 7,940 168 1,784 29,599 11,616 7,031 6,465
alifornia delationia d	17,911 2,354 2,145 209 783 2,516 2,677 156 373 5,970 1,943 1,305 2,452 1,157 1,474 72 2,237 5,442	16,438 2,955 2,237 285 951 2,851 2,776 152 399 6,052 3,992 1,238 1,549 1,166 1,530 92	18,750 4,847 2,658 427 1,373 2,837 3,192 148 686 10,472 6,203 2,382 2,113 1,863 1,616	20,672 6,434 4,075 638 1,739 2,950 4,136 155 1,041 16,533 6,471 3,878 3,188 2,878 1,933	23,521 8,355 4,820 871 2,183 3,227 4,853 160 1,345 23,087 9,135 5,789 4,707 4,049	25,728 10,201 5,372 1,062 2,316 3,765 7,940 168 1,784 29,599 11,616 7,031 6,465
olorado onnecticut elaware istrict of Columbia lorida eeorgia awaii laho inois diana wa ansas eentucky ouisiana laine laryland lassachusetts lichigan linnesota lississispi lissouri lontana eebraska eevada ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota hio elaware istriction indiana ansas eentucky ouisiana laine laryland lassachusetts lichigan linnesota lississispi lissouri lontana ebraska evada	2,354 2,145 209 783 2,516 2,677 156 373 5,970 1,943 1,305 2,452 1,157 1,474 72 2,237 5,442	2,955 2,237 285 951 2,851 2,776 152 399 6,052 3,992 1,238 1,549 1,166 1,530 92	4,847 2,658 427 1,373 2,837 3,192 148 686 10,472 6,203 2,382 2,113 1,863 1,616	6,434 4,075 638 1,739 2,950 4,136 155 1,041 16,533 6,471 3,878 3,188 2,878 1,933	8,355 4,820 871 2,183 3,227 4,853 160 1,345 23,087 9,135 5,789 4,707 4,049	10,201 5,372 1,062 2,316 3,765 7,940 168 1,784 29,599 11,616 7,031 6,465
onnecticut elaware istrict of Columbia lorida eorgia aawaii laho inois diana wa ansas entucky busiana laine laryland lassachusetts lichigan linnesota lississippi lissouri lontana ebraska ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota lhio klahoma regon ennsylvania hode Island	2,145 209 783 2,516 2,677 156 373 5,970 1,943 1,305 2,452 1,157 1,474 72 2,237 5,442	2,237 285 951 2,851 2,776 152 399 6,052 3,992 1,238 1,549 1,166 1,530 92	2,658 427 1,373 2,837 3,192 148 686 10,472 6,203 2,382 2,113 1,863 1,616	4,075 638 1,739 2,950 4,136 155 1,041 16,533 6,471 3,878 3,188 2,878 1,933	4,820 871 2,183 3,227 4,853 160 1,345 23,087 9,135 5,789 4,707 4,049	5,372 1,062 2,316 3,765 7,940 168 1,784 29,599 11,616 7,031 6,465
elaware istrict of Columbia lorida eorgia awaii laho inois idiana wa ansas entucky ouisiana laine laryland assachusetts liichigan linnesota lississispi lissouri lontana ebraska ewada ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota hio klahoma regon ennsylvania hode Island	209 783 2,516 2,677 156 373 5,970 1,943 1,305 2,452 1,157 1,474 72 2,237 5,442	285 951 2,851 2,776 152 399 6,052 3,992 1,238 1,549 1,166 1,530 92	427 1,373 2,837 3,192 148 686 10,472 6,203 2,382 2,113 1,863 1,616	638 1,739 2,950 4,136 155 1,041 16,533 6,471 3,878 3,188 2,878 1,933	871 2,183 3,227 4,853 160 1,345 23,087 9,135 5,789 4,707 4,049	1,062 2,316 3,765 7,940 168 1,784 29,599 11,616 7,031 6,465
istrict of Columbia lorida eorgia awaii laho inois diana wa ansas entucky ouisiana laine laryland assachusetts lichigan linnesota lississippi lissouri lontana ebraska evada ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota hio klahoma regon ennsylvania hode Island	783 2,516 2,677 156 373 5,970 1,943 1,305 2,452 1,157 1,474 72 2,237 5,442	951 2,851 2,776 152 399 6,052 3,992 1,238 1,549 1,166 1,530 92	1,373 2,837 3,192 148 686 10,472 6,203 2,382 2,113 1,863 1,616	1,739 2,950 4,136 155 1,041 16,533 6,471 3,878 3,188 2,878 1,933	2,183 3,227 4,853 160 1,345 23,087 9,135 5,789 4,707 4,049	2,316 3,765 7,940 168 1,784 29,599 11,616 7,031 6,465
istrict of Columbia orida eorgia awaii aho inois diana wa ansas entucky puisiana aine aryland assachusetts ichigan innesota ississippi issouri ontana ebraska eevada ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota hio klahoma regon ennsylvania hode Island	783 2,516 2,677 156 373 5,970 1,943 1,305 2,452 1,157 1,474 72 2,237 5,442	951 2,851 2,776 152 399 6,052 3,992 1,238 1,549 1,166 1,530 92	1,373 2,837 3,192 148 686 10,472 6,203 2,382 2,113 1,863 1,616	1,739 2,950 4,136 155 1,041 16,533 6,471 3,878 3,188 2,878 1,933	2,183 3,227 4,853 160 1,345 23,087 9,135 5,789 4,707 4,049	2,316 3,765 7,940 168 1,784 29,599 11,616 7,031 6,465
orida	2,516 2,677 156 373 5,970 1,943 1,305 2,452 1,157 1,474 72 2,237 5,442	2,851 2,776 152 399 6,052 3,992 1,238 1,549 1,166 1,530 92	2,837 3,192 148 686 10,472 6,203 2,382 2,113 1,863 1,616	2,950 4,136 155 1,041 16,533 6,471 3,878 3,188 2,878 1,933	3,227 4,853 160 1,345 23,087 9,135 5,789 4,707 4,049	3,765 7,940 168 1,784 29,599 11,616 7,031 6,465
awaii aho iniois aho i	156 373 5,970 1,943 1,305 2,452 1,157 1,474 72 2,237 5,442	152 399 6,052 3,992 1,238 1,549 1,166 1,530 92	148 686 10,472 6,203 2,382 2,113 1,863 1,616	155 1,041 16,533 6,471 3,878 3,188 2,878 1,933	160 1,345 23,087 9,135 5,789 4,707 4,049	168 1,784 29,599 11,616 7,031 6,465
awaii aho	156 373 5,970 1,943 1,305 2,452 1,157 1,474 72 2,237 5,442	152 399 6,052 3,992 1,238 1,549 1,166 1,530 92	148 686 10,472 6,203 2,382 2,113 1,863 1,616	155 1,041 16,533 6,471 3,878 3,188 2,878 1,933	160 1,345 23,087 9,135 5,789 4,707 4,049	168 1,784 29,599 11,616 7,031 6,465
aho nois nois diana wa ansas entucky puisiana aine aryland assachusetts ichigan innesota ississispi issouri ontana ebraska evada ew Hampshire ew Hersey ew Mexico ew York orth Carolina orth Dakota hio klahoma regon ennsylvania node Island	373 5,970 1,943 1,305 2,452 1,157 1,474 72 2,237 5,442	399 6,052 3,992 1,238 1,549 1,166 1,530 92	686 10,472 6,203 2,382 2,113 1,863 1,616	1,041 16,533 6,471 3,878 3,188 2,878 1,933	1,345 23,087 9,135 5,789 4,707 4,049	1,784 29,599 11,616 7,031 6,465
inois diana wa ansas entucky buisiana aine aryland assachusetts ichigan innesota ississippi issouri ontana ebraska eevada eew Hampshire ew Jersey eew Mexico ew York orth Carolina orth Dakota hio klahoma regon ennsylvania hode Island	5,970 1,943 1,305 2,452 1,157 1,474 72 2,237 5,442	6,052 3,992 1,238 1,549 1,166 1,530 92	10,472 6,203 2,382 2,113 1,863 1,616	16,533 6,471 3,878 3,188 2,878 1,933	23,087 9,135 5,789 4,707 4,049	29,599 11,616 7,031 6,465
diana	1,943 1,305 2,452 1,157 1,474 72 2,237 5,442	3,992 1,238 1,549 1,166 1,530 92	6,203 2,382 2,113 1,863 1,616	6,471 3,878 3,188 2,878 1,933	9,135 5,789 4,707 4,049	11,616 7,031 6,465
wa ansas	1,305 2,452 1,157 1,474 72 2,237 5,442	1,238 1,549 1,166 1,530 92	2,382 2,113 1,863 1,616	3,878 3,188 2,878 1,933	5,789 4,707 4,049	7,031 6,465
ansas antucky butusiana aine aryland aassachusetts ichigan innesota ississispi issouri ontana abraska evada ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota hio klahoma regon ennsylvania node Island	2,452 1,157 1,474 72 2,237 5,442	1,549 1,166 1,530 92	2,113 1,863 1,616	3,188 2,878 1,933	4,707 4,049	6,465
entucky susiana aine aryland assachusetts ichigan innesota ississispi issouri ontana ebraska evada ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota hio klahoma regon ennsylvania node Island	1,157 1,474 72 2,237 5,442	1,166 1,530 92	1,863 1,616	2,878 1,933	4,049	,
entucky usisiana aine aryland assachusetts ichigan innesota ississispi issouri ontana ebraska evada ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota hio klahoma regon ennsylvania node Island	1,157 1,474 72 2,237 5,442	1,166 1,530 92	1,863 1,616	2,878 1,933	4,049	,
puisiana aine aryland assachusetts ichigan innesota ississispi issouri ontana ebraska ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota hio klahoma regon ennsylvania ende Island	1,474 72 2,237 5,442	1,530 92	1,616	1,933	,	
aine aryland assachusetts ichigan innesota ississispi issouri ontana ebraska evada ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota hio klahoma regon ennsylvania hode Island	72 2,237 5,442	92	,		2,521	3,713
assachusetts ichigan innesota ississispi issouri ontana ebraska ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota hio klahoma regon ennsylvania endel sland	5,442	2,315		231	378	348
assachusetts chigan nnesota ssissippi ssouri ontana ebraska ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota nio klahoma eegon ennsylvania node Island	5,442	2,313	2,744	4,240	5,681	6,291
chigan nnesota ssissispi ssouri ontana ebraska evada ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota nio klahoma egon ennsylvania node Island	,	7 000	,	,	,	,
nnesota ssissippi ssouri ontana ebraska evada ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota nio klahoma eegon ennsylvania noode Island	0.040	7,023	6,215	9,133	11,697	13,959
ssissippi ssouri ontana ebraska ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota dahoma egon ennsylvania node Island	2,213	7,417	12,843	18,737	25,036	27,780
ssouri pontana pebraska pevada pew Hampshire pew Jersey pew Mexico pew York porth Carolina porth Dakota porth Dakota per Mexico per Mexico per Mexico pew York porth Carolina porth Dakota porth Dakota porth Dakota porth Dakota porth Dakota	2,343 1,206	2,801 1,174	4,949 1,306	8,161 1,533	11,915 2,114	13,282 3,076
ontana sbraska evada evada ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota nio klahoma regon ennsylvania node Island	1,200	1,174	1,300	1,555	2,114	3,070
ebraska evada ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota hio klahoma regon ennsylvania node Island	2,169	2,459	3,556	5,761	7,934	12,749
evada	365	453	718	1,349	1,634	1,958
ew Hampshire ew Jersey ew Mexico ew York orth Carolina orth Dakota hio klahoma regon ennsylvania node Island	4,067	1,309	2,093	2,520	3,330	3,925
ew Jersey ew Mexico ew York 2 orth Carolina orth Dakota nio klahoma regon ennsylvania node Island	1,103	1,416	1,700	1,906	2,455	2,643
ew Mexico ew York orth Carolina orth Dakota nio klahoma regon ennsylvania node Island	216	286	472	739	954	1,110
ew Mexico ew York orth Carolina orth Dakota nio klahoma egon ennsylvania node Island	7,213	8,127	11,571	16,399	24,061	15,701
ew York 2 orth Carolina 5 orth Dakota 6 nio 6 klahoma 7 egon 7 ennsylvania 7 node Island 7	1,166	1,093	2,065	2,170	3,517	4,741
orth Carolinaorth Dakota	21,119	20,942	21,767	28,346	34,051	38,410
orth Dakota	1,513	1,741	2,260	2,909	3,731	5,747
klahoma egon nnsylvania node Island	141	315	590	1,062	1,373	1,840
dahoma egon nnsylvania lode Island	4,100	8,641	11 246	15,105	23,116	28,057
regonennsylvania node Island	,	,	11,246	,	,	,
ennsylvania node Island	1,732	1,570	2,622	3,668	5,151	7,287
node Island	1,011	1,071	1,579	2,312	3,086	3,698
	4,661 431	5,408	9,952	12,750	17,530	19,262
outh Carolina	431	537	892	1,144	1,740	1,744
	990	1,096	1,268	1,202	1,794	2,381
outh Dakota	246	283	603	940	1,235	1,606
nnessee	1,944	2,350	3,155	4,177	5,559	9,263
xas 1	16,420	13,384	14,126	15,195	20,886	22,457
ah	927	945	1,268	2,675	3,363	4,473
ermont	80	108	160	296	429	444
rginia	2,395	2,700	4,304	5,671	7,141	7,992
ashington	,	2,240	3,161	3,196	4,443	4,971
est Virginia	1.831	1,093	1,599	2,116	2,772	3,612
isconsin	1,831 927	2,712	5,242	6,917	10,587	11,651
yoming	927	491	959	1,190	1,405	1,311
Fotal 14			204,203	269,510	360,492	420,853

R = Revised Data.
NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. Deliveries for total year 1996 may not equal the sum of the twelve months. Gas volumes delivered for use as vehicle fuel are included in the annual total but not in the monthly components. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1996-1998 (Million Cubic Feet)

State	YTD	YTD	YTD	1998			
State	1998	1997	1996	September	August	July	
labama	153,004 NA	147,557	149,349	15,399 NA	17,248 NA	16,167	
Alaska		54,908	55,711			6,542	
rizona	20,693	20,505	19,644	2,078	2,508	2,307	
irkansas	109,478	109,370	104,569	11,836	11,799	11,321	
alifornia	543,165	551,254	515,614	65,490	64,310	59,188	
olorado	NA	55,028	63,400	4,230	NA	NA	
onnecticut	24,429	25,649	22,944	2,417	2,455	2,271	
elaware	11,788	10,683	10,498	1,182	1,221	1,097	
istrict of Columbia	0	0	0	0	0	0	
lorida	105,550	98,412	102,976	11,553	10,827	11,384	
eorgia	113,622	134,888	134,417	8,274	13,484	12,768	
awaii	0	0	0	0,274	0	0	
daho a	26,120	25,506	25,916	2,701	2,530	2,620	
	,	,	,	21,840	,	,	
linoisndiana	223,599 NA	234,274 210,413	231,135 215,728	21,840 NA	20,413 NA	20,256 NA	
		,					
owa	81,817	77,446	82,402	7,469	7,741	7,647	
ansas	82,000	83,817	83,711	7,312	10,790	11,626	
entucky	67,761	69,267	68,575	6,695	6,702	6,738	
ouisiana	716,879	749,704	783,026	84,209	85,378	80,693	
laine	1,521	1,762	1,545	190	179	153	
laryland	NA	43,631	36,889	NA	4,000	3,779	
lassachusetts	NA	83,231	72.701	NA	8,134	7,812	
lichigan	226,382	251,368	259,173	18,483	17,707	18,191	
linnesota	72,218	77,876	72,676	4,187	8,677	7,803	
lississippi	72,210 NA	61,591	60,514	7,663	NA NA	7,003 NA	
	40.054	50.704	50,000	4.504	4.050	4.070	
Aissouri	49,054	52,764	53,903	4,581	4,658	4,672	
lontana	12,813	13,091	12,896	1,206	1,126	1,215	
lebraska	28,395	32,980	26,009	786	4,050	5,853	
levada	19,981	21,767	24,494	1,793	2,739	2,458	
ew Hampshire	NA	4,421	3,512	476	NA	438	
ew Jersey	NA	152,656	141,123	NA	15,840	15,601	
lew Mexico	29,437	30,914	17,010	3,805	3,556	R3,536	
ew York	ŃΑ	231,076	239,034	ŃA	ŃA	ŃA	
orth Carolina	86,679	81,680	74,380	8,986	9,283	8,561	
orth Dakota	7,647	15,523	5,347	791	711	729	
hio	NA	240 404	256 265	24.269	22 402	NA	
Phio		248,494 158.495	256,365	24,368	23,492		
klahoma	149,117 NA	,	149,199	19,543	18,236	16,672 NA	
Pregon		63,620	62,073	8,452	6,988		
ennsylvania	173,406 NA	176,823	180,518	17,892	17,882	17,111	
hode Island	•••	18,637	17,095	1,963	2,126	2,121	
outh Carolina	77,708	76,780	69,312	8,475	8,389	7,613	
outh Dakota	4,089	5,279	5,250	411	440	416	
ennessee	NA	103,106	91,214	12,499	12,815	11,939	
exas	1,434,478	1,553,834	1,603,420	151,722	164,970	181,812	
tah	34,571	31,339	31,264	3,192	3,040	3,424	
ermont	1,543	1,650	1,377	154	135	153	
irginia	70,153	64,053	61,021	8,135	9,453	9,466	
•	70,133 NA	79,197		NA	9,433 NA	9,400 NA	
/ashington	NA		82,958	NA	NA	NA	
/est Virginia		42,714	36,826				
/isconsin/yoming	103,770 NA	113,847 34,686	107,425 36,187	10,713 3,897	10,267 NA	7,967 NA	
young		34,000	JU, 10 <i>1</i>	3,037			
				666,216	686,233	R684,497	

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1996-1998 (Million Cubic Feet) — Continued

State	1998								
State	June	May	April	March	February	January			
tel and	40.707	47.000	47.040	40.000	40.444	40,400			
labama	16,737	17,308	17,013	18,208	16,441	18,483			
laska	6,251	5,854	6,455	6,878	6,152	6,454			
rizona	2,034	2,313	2,281	2,413	2,226	2,533			
rkansas	11,102	11,839	12,765	13,363	12,114	13,339			
alifornia	53,880	66,080	55,492	47,185	67,501	64,039			
olorado	NA	5,649	6,278	6,323	6,388	6,949			
connecticut	2,225	2,546	2,782	3,183	3,149	3,402			
elaware	1,160	1,256	1,348	1,477	1,443	1,604			
District of Columbia	0	0	0	0	0	0			
lorida	11,469	11,765	11,608	12,960	11,053	12,931			
	40.440	40.504	40.000	40.404	10.005	40.000			
eorgiaawaii	13,149 0	12,501 0	12,866 0	13,434 0	13,335 0	13,808 0			
laho a	2,672	2,593	3,047	3,130	3,482	3,344			
linois	20,738	22,462	26,752	29,211	28,719	33,208			
			20,752 NA		,				
diana	23,465	23,136		27,772	25,847	28,857			
owa	7,574	8,097	10,660	11,792	9,516	11,321			
ansas	9,583	8,483	8,011	8,686	7,811	9,699			
entucky	6,787	7,022	7,543	8,884	7,550	9,839			
ouisiana	73,666	75,577	77,970	81,959	74,500	82,928			
laine	184	168	122	159	164	202			
laryland	3.622	4,047	4,407	11,276	10,677	13,699			
lassachusetts	NA	7,635	8,209	8,759	8,443	9,923			
	22.705	25,012	26,873	32,052	31,380	33,980			
lichigan	22,705	6,901		9,039	10,044	,			
finnesotafinnesota	7,847 na	NA NA	8,548 NA	9,039 NA	6,814	9,171 NA			
lissouri	4,646	4,830	5,473	6,788	6,360	7,047			
Nontana	1,687	1,244	1,521	1,481	1,449	1,884			
lebraska	3,076	2,662	2,543	3,043	2,902	3,481			
levada	2,337	2,455	2,453	2,174	1,979	1,593			
ew Hampshire	431	473	457	468	498	481			
lew Jersey	14,727	15,723	16,455	17,152	17,655	18,980			
lew Mexico	R3,179	R3,131	R3,190	R2,891	^R 2,895	R3,254			
ew York	R21,404	NA NA	22,542	26,423	NA	NA NA			
orth Carolina	9,042	9,439	9,366	10,846	10,404	10,752			
orth Dakota	9,042 771	9,439 773	898	1,017	948	1,010			
orar Dakota		770	000	1,017	0.10	1,010			
hio	24,008	25,977	29,362	32,257	31,779	35,912			
klahoma	16,280	13,793	14,388	16,578	17,131	16,497			
regon	6,767	7,015	ŃA	ŃA	8,744	9,760			
ennsylvania	17,926	18,161	19,808	21,699	20,811	22,115			
hode Island	2,042	NA NA	2,078	2,117	2,011	2,173			
outh Carolina	8,464	8,713	8,159	9,121	9,129	9,645			
						565			
outh Dakota	307	697	279	474	500	SOS NA			
ennessee	11,714	11,710	12,020	14,188	12,628				
exas	150,210	154,540	153,724	159,503	148,544	169,452			
tah	3,678	3,668	4,480	4,273	4,080	4,735			
ermont	152	164	164	194	205	223			
irginia	8,290	6,375	7,746	6,497	7,444 NA	6,747			
/ashington	ŇA	ŇA	ŇA	ŇA	NA	ŇA			
/est Virginia	NA	NA	4,099	4,553	1,696	4,510			
/isconsin	9,204	9,508	11,658	14,819	13,298	16,337			
Vyoming	4,119	4,293	3,344	ŃĀ	ŃA	5,156			

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1996-1998 (Million Cubic Feet) — Continued

State	1997								
State	Total	December	November	October	September	August			
	224.242	10.010	4= 0=0	40.077	45.000	45.505			
abama	201,240	19,049	17,956	16,677	15,298	15,537			
aska		6,851	5,551	6,290	4,218	6,373			
rizona	27,864	2,678	2,352	2,329	2,576	2,369			
rkansas	147,969	13,294	12,753	12,551	11,111	12,082			
alifornia	737,354	64,122	63,615	58,363	68,290	68,738			
olorado	73,781	7,037	6,542	5,174	4,717	6,458			
onnecticut	34,554	3,438	2,840	2,627	2,378	2,549			
elaware	14,805	1,599	1,331	1,193	1,114	1,009			
istrict of Columbia	0	0	0	0	, O	0			
orida	130,816	11,157	10,619	10,628	10,448	10,872			
eorgia	174,747	13,568	12,922	13,369	12,457	13,862			
•	342	342	0	13,309	0	13,802			
awaii									
laho a		3,158	3,109	3,226	2,756	2,371			
inois	317,755	30,894	27,921	24,667	22,090	20,598			
diana	290,723	27,648	28,003	24,659	21,620	20,894			
wa	107,463	10,549	9,896	9,571	8,083	8,285			
ansas	112,089	11,682	8,483	8,107	7,599	8,302			
entucky	95,724	9,220	8,729	8,508	6,879	6,862			
ouisiana	1,004,383	84,522	82,180	87,977	83,556	86,060			
aine	2,525	218	299	246	211	193			
aryland	65,954	13,535	4,361	4,427	4,406	5,041			
assachusetts	108.295	8,984	8,165	7,916	7,449	8,618			
	,	33.117	28,965	25,006	23,949	,			
ichigan	338,456	,	,		,	24,022			
innesotaississippi	107,338 83,967	10,132 7,562	10,200 7,751	9,130 7,063	7,261 5,976	8,379 6,650			
	,	.,		,,,,,	2,212	,			
lissouri	71,164	6,842	6,397	5,161	4,392	4,336			
lontana	18,766	2,120	1,900	1,656	1,325	1,287			
ebraska	44,418	5,064	2,736	3,638	2,797	3,505			
evada	28,925	2,330	2,316	2,512	2,528	2,521			
ew Hampshire	5,830	468	442	499	463	451			
ew Jersey	202,418	18,335	15,921	15,505	14,356	18,611			
ew Mexico	,	3,528	3,319	3,092	3,258	3,217			
ew York	305,521	26,822	26,731	20,891	25,050	22,613			
orth Carolina	111,513	9,830	10,055	9,948	8,313	8,157			
orth Dakota	20,580	1,975	1,525	1,556	1,518	1,593			
		1,010	1,5_5	,,,,,	1,010	.,			
hio	335,993	31,923	29,457	26,118	23,913	23,310			
klahoma	206,677	16,693	15,943	15,546	16,738	17,677			
regon		9,751	8,789	8,242	8,019	8,218			
ennsylvania	238,220	21,967	21,958	17,472	16,814	17,511			
hode Island	24,472	2,179	2,148	1,509	1,440	1,491			
outh Carolina	102,929	9,226	8,685	8,238	8,832	8,184			
outh Dakota	6,928	606	618	424	470	499			
ennessee	138,877	12,776	11,768	11,228	10,408	12,556			
exas	2,058,755	169.958	167,175	167,787	165,238	174,495			
tah	2,056,755 44,162	4,492	4,116	4,216	2,488	3,361			
ermont	2,334	235	226	223	176	157			
irginia	85,264	8,128	7,094	5,989	6,911	9,236			
ashington	111,159	12,255	10,247	9,459	10,909	10,178			
est Virginia		5,201	4,824	4,640	4,515	4,616			
/isconsin		15,154	14,492	12,184	10,289	9,734			
/yoming		4,066	4,296	3,889	3,285	3,833			

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1996-1998

01-1-	1997								
State	July	June	Мау	April	March	February			
labama	14,984	15,862	17,051	17,881	16,890	16,479			
laska	5,948	5,893	5,598	6,420	6,968	6,425			
rizona	2,240	2,174	2,336	2,091	2,354	2,133			
rkansas	11,872	11,684	11,991	12,097	12,445	12,270			
alifornia	66,660	59,353	57,369	57,182	57,146	55,888			
olorado	4,912	6,073	6,278	5,736	7,425	6,650			
onnecticut	2,444	2,444	2,878	3,318	3,536	3,026			
elaware	1,096	1,147	1,301	1,352	1,242	1,185			
strict of Columbia	0	, 0	0	0	0	0			
orida	10,607	10,621	11,537	11,506	11,075	10,504			
eorgia	13,233	12,135	16,473	17,034	16,629	17,303			
awaii	0	0	0	0	0	0			
laho ^a	2,635	2,724	2,673	3,180	3,200	2,802			
	22,236	22,534	25,392	26,558	3,200 29.871	31,761			
inoisdiana	22,236	22,534 17,709	20,338	26,558 24,261	29,871	26,893			
diana	20,024	17,709	20,330	∠ -1 ,∠∪ 1	21,001	20,093			
wa	7,409	7,489	8,159	8,785	9,405	9,475			
ansas	12,164	8,674	8,540	9,183	9,220	8,559			
entucky	6,341	6,457	7,556	7,603	8,241	8,880			
ouisiana	81,897	83,336	84,944	83,486	83,322	78,853			
aine	157	199	228	249	184	162			
aryland	4,765	5,178	4,872	4,468	5,775	4,829			
assachusetts	8,696	10,308	7,856	10,239	10,327	10,233			
	15,926	25.902	28,281	29,068	34,268	34,021			
ichigan		-,	,						
linnesotalississippi	8,154 6,989	7,724 6,559	7,623 6,150	8,561 6,990	10,471 7,216	10,247 7,180			
	0,000	0,000	0,100	0,000	7,210	7,100			
lissouri	4,611	4,784	5,083	7,278	5,435	9,586			
lontana	1,122	1,208	1,402	1,210	1,767	1,703			
ebraska	1,717	3,334	3,514	4,583	4,658	4,509			
evada	2,353	2,335	2,625	2,208	2,491	2,241			
ew Hampshire	428	451	559	638	576	442			
ew Jersey	14.648	14,516	15,097	17,337	19.610	19,723			
ew Mexico	3,447	3,355	3,490	3,181	3,196	3,483			
ew York	24,246	23,418	24,289	26,049	29,294	29,012			
orth Carolina	8,382	8,873	9,043	9,764	9,738	9,574			
orth Dakota	1,362	1,621	1,599	1,806	2,299	2,006			
hio	21,999	28,629	25,952	26,354	30,215	32,153			
klahoma	16,664	17,580	17,354	17,384	17,264	18,857			
regon	7,240	5,515	6,070	6,402	6,841	6,716			
ennsylvania	16,838	16,471	18,876	21,649	21,951	23,188			
hode Island	2,159	2,265	2,401	2,514	2,241	1,993			
outh Carolina	7,967	8,568	9,111	9,069	9,012	7,897			
outh Dakota	322	460	531	624	705	791			
ennessee	10,581	10,591	9.665	12.484	11,889	12,864			
exas	168,624	168,087	170,594	167,379	188,635	162,820			
tah	3,473	3,398	3,623	3,746	3,769	3,685			
ermont	144	146	218	199	234	196			
irginia	8,535	6,165	7,401	6,362	4,015	7,780			
/ashington	7,788	7,709	8,184	7,891	8,923	8,836			
/est Virginia	4,480	4,393	4,990	7,557	2,912	4,318			
/isconsin	9,244	9,672	11,545	13,885	15,950	15,228			
lyoming	3,218	3,837	4,101	3,843	3,773	3,771			
Total	683,279	689,559	712,740	738,645	782,185	759,129			

 ^a Small volumes of natural gas representing onsystem sales to industrial consumers in Idaho are included in the annual total but not in monthly components.
 Deliveries for total year 1995 in Idaho do not equal the sum of the twelve months.
 ^R = Revised Data.
 ^{NA} = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 18. Natural Gas Deliveries to Electric Utility^a Consumers, by State, 1996-1998

(Million Cubic Feet)

State	YTD	YTD	YTD		1998	
State	1998	1997	1996	September	August	July
lahama	22.224	0.700	4.004	4 24 4	F 420	F 070
labama	23,221	8,768	4,991	4,214	5,130	5,072
laska	20,889	25,149	23,369	2,392	2,030	2,154
rizona	27,448	20,691	16,267	6,201	8,186	6,792
rkansas	38,676	21,843	32,264	6,824	8,248	7,084
alifornia	208,010	294,099	245,499	31,817	34,626	26,022
olorado	8,092	4,060	4,232	1,543	1,419	1,739
onnecticut	10,380	12,528	7,770	1,606	2,673	1,582
elaware	8,088	14,356	17,862	1,319	1,673	1,648
strict of Columbia	0	0	0	0	0	C
orida	217,327	239,905	223,848	27,475	29,258	31,976
eorgia	19,976	6,862	4,542	3,350	5,026	5,455
awaii	0	0	0	0	0	Ć
aho	0	0	0	0	0	0
nois	52,440	31,887	22,409	6,137	7,737	7,707
diana	8,866	4,031	3,694	1,066	1,829	2,084
wa	5,662	3,205	2,811	1,134	1,083	965
ansas	32,796	18,710	20,550	6,370	7,339	8,026
entucky	5,269	1,646	1,585	978	1,060	650
puisiana	254.862	224,075	205,383	36,598	44,645	43,685
aine	0	0	0	0	0	45,005
aryland	11,386	9,685	7,495	2,566	3,147	2,186
		,	,			,
assachusetts	16,046	42,658	31,747	1,130	1,970	1,407
ichigan	37,955	23,881	23,815	5,437	5,545	4,573
nnesota	6,950	5,465	4,010	1,563	1,483	1,410
ssissippi	63,692	59,023	67,626	8,142	11,127	10,889
issouri	14,802	6,258	4,722	3,068	4,002	3,753
ontana	404	329	271	69	83	80
ebraska	4,850	2,191	2,052	974	1,185	1,046
evada	43,415	41,962	37,731	6,460	8,819	8,189
ew Hampshire	124	503	2	0	26	37
ew Jersey	29,162	25,557	22,861	3,447	6,217	7,107
ew Mexico	32,078	25,929	22,515	3,783	4,850	4,218
ew York	173,488	174,807	112,406	20,469	34,234	29,304
orth Carolina	12,220	3,977	2,266	2,132	3,116	2,042
orth Dakota	0	1	3	0	0	2,012
nio	6,863	2.722	2.446	1,332	1,424	1,306
klahoma	138,667	99.122	112,867	21.198	26,923	26,857
egon	16.787	6,699	9,342	2,814	3,781	3,008
ennsylvania	6,205	6,494	5,653	560	455	1,409
node Island	15,593	19,567	18,031	0	2,251	2,238
outh Carolina	5,683	2,343	1,147	919	1,238	1,239
	2,426	,	,		608	
outh Dakota	,	1,513	605 571	366		627
ennessee	6,024	1,427	571	1,860	1,123	1,407
xasah	1,016,013 4,112	823,709 3,595	853,351 3,024	143,056 1,071	161,305 1,175	174,175 1,000
ermont	173	26	15	11	8	15
rginia	17,580	9,636	9,276	3,324	3,647	2,970
ashington	7,658	2,047	5,410	2,749	3,470	621
est Virginia	284	188	158	20	34	53
sconsin	14,566	14,165	5,226	2,047	2,341	3,064
yoming	248	59	68	9	1	5
						448,875

Table 18. Natural Gas Deliveries to Electric Utility^a Consumers, by State, 1996-1998

State	1998								
State	June	Мау	April	March	February	January			
lab a ma	4.704	0.044	000	000	457	200			
labama	4,764	2,844	296	383	157	362			
laska	2,093	2,411	2,266	2,382	2,307	2,852			
rizona	1,986	674	1,127	718	804	962			
rkansas	6,676	5,479	2,283	1,521	272	289			
alifornia	15,338	13,745	18,055	23,374	18,278	26,755			
olorado	901	656	586	416	451	381			
onnecticut	1,709	1,386	157	23	109	1,136			
elaware	1,196	900	548	475	74	256			
istrict of Columbia	0	0	0	0	0	0			
lorida	33,192	26,827	15,860	18,020	15,637	19,082			
eorgia	4.958	746	98	183	57	102			
awaii	4,550	0	0	0	0	0			
laho	0	0	0	0	0	0			
inois	7,387	7,068	4,835	4,022	3,535	4,014			
inoisidiana	1,878	7,068 1,187	4,835 205	4,022 426	3,535 104	4,014			
	,	,				<u>.</u>			
wa	774	697	298	245	202	264			
ansas	5,333	3,207	594	935	446	545			
entucky	950	1,017	107	282	138	86			
ouisiana	38,810	31,812	18,082	16,198	9,860	15,171			
aine	0	0	0	0	0	0			
laryland	1,396	932	373	371	223	191			
lassachusetts	2,169	2,666	1,579	1,565	1,320	2,241			
lichigan	5,093	4,212	3.602	3.758	2.496	3,239			
•	994	804	268	204	105	,			
linnesotalississippi	10,630	8,717	4,400	3,921	2,775	119 3,092			
		,							
lissouri	2,440	952	210	161	80	135			
lontana	26	89	15	39	0	1			
ebraska	719	634	176	59	21	37			
evada	4,036	3,761	3,549	2,446	3,128	3,027			
ew Hampshire	35	0	0	0	26	0			
ew Jersey	4,303	3,926	1,380	1,835	419	528			
ew Mexico	4,019	4,948	3,448	3,092	1,802	1,918			
ew York	24,084	18,926	9,076	10,397	10,274	16,724			
orth Carolina	3,789	1,026	12	91	1	11			
orth Dakota	0	0	0	0	Ö	0			
hio	1 102	1.005	170	307	96	114			
hio	1,102	1,005	178						
klahoma	20,792	13,893	7,944	9,394	5,205	6,460			
regon	835	176	2,266	1,335	1,102	1,471			
ennsylvaniahode Island	2,013 1,453	621 1,943	260 1,606	406 1,889	257 1,599	225 2,613			
node lotalid	1,700	1,070	1,000	1,000	1,000	2,010			
outh Carolina	1,413	687	37	106	11	33			
outh Dakota	315	366	33	42	6	63			
ennessee	1,202	432	0	0	0	0			
exas	153,171	117,366	83,043	80,475	49,071	54,351			
tah	141	138	135	156	144	153			
ermont	7	12	6	3	47	65			
irginia	2,254	2,158	699	1,197	476	853			
9		2,136		1,197	5	492			
/ashington/ost Virginia	33 46		152						
/est Virginia	46	30	22	29	29	21			
/isconsin	2,557	2,282	395	1,108	353	418			
/yoming	10	6	8	3	200	7			
Гоtal	379,024	293,378	190,266	194,113	133,700	170,946			

Table 18. Natural Gas Deliveries to Electric Utility^a Consumers, by State, 1996-1998

State	1997								
State	Total	December	November	October	September	August			
abama	9,997	87	295	846	1,247	2,373			
aska	33,510	3,013	2,668	2,680	2,289	2,432			
		,	,	,	,	,			
izona	23,385	752 204	399	1,542	5,103	4,808			
kansas	24,805	294	375	2,293	3,376	5,269			
lifornia	377,946	26,274	22,422	35,151	56,539	48,248			
lorado	5,536	450	385	641	667	716			
onnecticut	16,761	554	1,446	2,234	1,722	2,300			
laware	16,092	699	681	356	667	1,592			
strict of Columbia	0	0	0	0	0	0			
orida	296,903	21,491	14,278	21,229	27,022	33,982			
eorgia	7,342	49	124	308	1,159	2,199			
ıwaii	0	0	0	0	0	0			
aho	0	0	0	0	0	0			
nois	44,607	5,018	3,906	3,795	2,375	3,807			
diana	4,661	137	211	281	242	478			
va	4,124	208	252	459	235	373			
insas	25,822	1,991	2,478	2,643	2,111	3,489			
entucky	2,194	158	190	200	181	311			
puisiana	277,438	16,781	14,535	22,047	30.516	34,790			
aine	0	0	0	0	0	0 1,7 00			
aryland	11,007	209	364	749	623	1,051			
assachusetts	51,490	2.411	3.176	3,245	4.785	5,579			
chigan	33,287	3,028	3,135	3,242	2,922	2,852			
nnesota	6,098	112	139	382	289	669			
ssissippi	73,083	4,573	4,060	5,428	8,115	11,934			
in a court	7.465	240	240	- FE-7	740	4.044			
ssouri	7,465	310	340	557	749	1,211			
ontana	420	21	30	40	27	46			
ebraska	2,656	34	77	354	263	364			
evadaew Hampshire	51,777 564	3,648 34	1,803 26	4,364 0	6,209 60	7,830 77			
W Hampsine	304	04	20	Ü	00	,,			
ew Jersey	29,534	552	1,340	2,085	1,349	4,238			
ew Mexico	33,375	1,998	2,224	3,224	2,834	4,337			
ew York	217,504	14,287	12,326	16,084	19,134	28,915			
orth Carolina	4,512	3	25	507	433	747			
orth Dakota	1	0	0	0	0	0			
nio	3,486	122	245	396	268	303			
dahoma	128,818	11,401	8,233	10,061	14,023	20,503			
egon	10,680	1,917	1,075	990	2,765	2,957			
ennsylvania	7,370	365	212	301	417	923			
node Island	27,160	2,602	2,488	2,503	2,364	2,423			
uth Carolina	2,731	35	112	240	212	422			
uth Dakota	1,731	83	90	45	88	228			
nnessee	1,636	0	0	209	0	328			
xas	1,056,550	69,566	72,391	90,883	126,044	141,896			
ah	4,078	177	173	134	906	1,080			
rmont	36	4	2	4	2	4			
ginia	11,572	851	353	732	541	1,369			
ashington	2,618	187	220	164	1,191	731			
est Virginia	219	11	2	17	15	9			
isconsin	15,776	467	400	743	697	895			
yoming	95	15	15	5	5	3			
otal	2,968,453	196,980	179,723	244,394	332,781	391,090			

Table 18. Natural Gas Deliveries to Electric Utility^a Consumers, by State, 1996-1998

24-4-			19	997		
State	July	June	Мау	April	March	February
•••			400			
Alabama	2,901	931	483	386	168	156
Alaska	2,729	2,574	2,897	2,917	3,584	2,514
Arizona	4,117	1,932	2,742	723	588	358
Arkansas	7,491	3,445	576	606	247	214
California	43,993	26,550	37,246	25,416	24,349	14,231
Colorado	704	337	394	265	323	259
Connecticut	2,412	1,364	1,139	1,227	965	1,206
Delaware	2,002	1,097	1,064	1,841	2,279	2,069
District of Columbia	0	0	0	0	0	0
Florida	33,658	31,546	29,444	27,857	28,937	16,983
Georgia	2,595	440	204	177	30	18
ławaii	0	0	0	0	0	0
daho	Ö	0	0	0	0	Ö
Ilinois	7,989	4,591	2,901	4,925	2.449	1,662
ndiana	1,683	718	210	199	219	136
owa	843	395	272	256	264	210
Kansas	6,353	3,143	272 1,238	256 847	364 563	219 413
		,				
Kentucky	525	170	21	117	130 15.859	80
Louisiana Maine	39,934 0	29,946 0	25,567	19,111 0	15,859	13,605
vaine	U	U	0	U	U	0
Naryland	3,382	1,857	726	1,478	336	47
Massachusetts	6,021	6,210	3,814	6,615	5,276	2,786
Aichigan	3,680	2,756	2,752	2,265	2,395	2,357
Minnesota	1,136	685	595	620	693	123
Mississippi	14,013	8,386	4,689	3,034	2,930	2,716
Missouri	2,792	1,022	95	174	77	52
Montana	116	8	7	15	18	27
Nebraska	879	218	108	172	79	77
Nevada	7,264	5,272	5,219	3,518	3,819	1,362
New Hampshire	12	353	0	0	0	0
lew Jersey	8,150	4,613	1,479	1,868	2,091	1,023
New Mexico	4,025	2,923	2,445	2,548	2,767	1,990
New York	36,082	29,210	17,438	12,102	14,764	12,342
North Carolina	1,888	811	61	26	1	9
North Dakota	1	0	0	0	0	0
Ohio	1,073	596	106	107	72	71
Oklahoma	20,874	12,256	6,716	7,026	6,647	4,845
Oregon	358	147	3	0	172	4,645
Pennsylvania	2,725	886	295	326	324	316
Rhode Island	2,005	2,185	2,447	1,854	2,179	2,021
South Constinu	600			70	40	
South Carolina	922	621	67	72	12	4
South Dakota	582	360	85	85	39	19
ennessee	844	255	72.250	0	0	0
exas	144,621	103,332	73,259	59,315	60,360	54,882
Jtah	819	25	146	142	180	137
/ermont	4	3	3	3	3	2
/irginia	2,863	1,508	622	1,389	1,125	43
Vashington	25	1	86	5	0	2
Vest Virginia	23	40	33	9	23	23
Visconsin	2,171	1,688	1,854	1,770	2,146	1,774
Vyoming	4	13	6	6	6	7
Total	429,286	297,424	231,548	193,416	189,590	143,185

^a Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-759, "Monthly Power Plant Report."

Table 19. Natural Gas Deliveries to All Consumers, by State, 1996-1998 (Million Cubic Feet)

State	YTD	YTD	YTD	1998				
State	1998	1997	1996	September	August	July		
labama	237,253 NA	215,739	221,575	21,861 NA	24,543 NA	23,472		
laska		108,319	109,131			10,365		
rizona	100,353 NA	87,194	77,684	10,941	13,310	12,051		
rkansas		183,305	194,954	21,855	23,323	21,804		
alifornia	1,392,383	1,377,478	1,267,548	146,002	150,879	137,488		
olorado	NA	193,392	199,057	11,177	^R 7,832	NA		
onnecticut	92,771	97,918	92,647	6,999	8,154	7,337		
elaware	30,287	36,840	41,071	2,857	3,234	3,131		
istrict of Columbia	23,446	24,804	25,078	1,176	1,174	1,242		
lorida	364,442	375,090	371,656	42,155	43,299	46,698		
eorgia	254,341	252,552	272,152	17,087	23,973	23,937		
<u> </u>	,	1,790	,	212	,	,		
lawaii	2,025 45,947	,	2,042		228	214		
laho	,	44,518	44,597	3,405	3,203	3,429		
linoisndiana	676,584 NA	748,537 390,287	767,898 408,704	45,838 NA	45,258 NA	43,411 NA		
			,					
wa	168,146	171,882	183,816	11,231	11,476	11,588		
ansas	203,988	181,325	203,756	16,681	21,579	23,349		
entucky	135,061	140,497	146,576	9,983	10,000	9,770		
ouisiana	ŇA	1,031,416	1,053,487	124,339	133,511	127,951		
laine	3,949	4,330	4,024	295	278	251		
aryland	NA	143,713	140,214	NA	11,149	9,982		
lassachusetts	NA	286,432	259,195	NA	15,857	16,115		
lichigan	614,251	686,819	718,705	37,242	35,834	35,339		
linnesota	210,633	237,192	242,481	11,180	14,937	13,777		
lississippi	210,033 NA	156,306	168,986	NA NA	NA	R18,767		
	400.000	000.044	040.000	40.400	40.004	10.005		
lissouri	196,890	203,211	212,806	12,463	13,884	13,305		
lontana	35,431	37,737	38,523	2,167	2,102	2,176		
lebraska	86,041	96,439	92,894	3,579	7,119	8,983		
evada	102,602	98,436	93,400	10,166	13,422	12,929		
ew Hampshire	NA	15,352	13,838	857	ŇA	871		
ew Jersey	NA	455,669	439,053	NA	32,664	33,937		
lew Mexico	107,395	102,116	81,631	9,670	10,466	^R 9,749		
ew York	ŇA	918,995	NA	ŇA	^R 76,920	R79,590		
orth Carolina	167,344	150,206	150,837	13,759	14,954	13,149		
orth Dakota	23,125	31,748	22,715	2,186	1,272	1,249		
hio	NA	631,144	660,786	36 522	36,233	NA		
		,	,	36,523	,			
klahoma	374,117 NA	343,500	354,372	43,991	48,401	47,000 NA		
Pregon	NA NA	112,631	113,313	13,053 NA	12,354 NA			
ennsylvania	NA NA	469,555	496,893			28,410		
hode Island		60,774	58,850	2,871	5,009	5,305		
outh Carolina	118,756	111,118	107,642	10,940	11,109	10,339		
outh Dakota	21,498	23,925	23,683	1,294	1,539	1,600		
ennessee	ŇA	188,231	187,047	18,058	17,415	17,040		
exas	2,776,452	2,702,879	2,762,345	326,821	357,700	379,619		
tah	96,005	93,118	90,531	7,201	6,387	6,533		
ermont	5,705	5,812	5,344	403	301	325		
irginia	177,227	168,749	167,932	15,463	16,135	16,601		
/ashington	NA NA	149,891	166,442	NA NA	NA	NA NA		
/est Virginia	NA	85,301	84,719	NA	NA	NA		
	257,609	281,221	279,477	20,887	R19,236	16,508		
/isconsin/yoming	257,609 NA	51,768	51,656	4,533	R4,607	16,508 NA		
,9		31,700	01,000	1,000	7,007			

Table 19. Natural Gas Deliveries to All Consumers, by State, 1996-1998

2000				1998		
State	June	May	April	March	February	January
labama	24,005	26,256	24,632	29,592	29,830	33,062
laska	10,247	10,881	11,872	13,040	12,516	14,428
rizona	7,467	7,574	10,115	12,001	12,168	14,726
rkansas	NA	20,481	19,046	24,796	23,129	23,745
alifornia	120,557	140,353	150,888	151,886	190,777	203,553
olorado	NA	18,619	24,720	31,317	32,174	36,697
onnecticut	7,280	7,933	10,871	13,255	14,383	16,558
elaware	2,833	2,925	3,298	4,030	3,776	4,203
istrict of Columbia	1,348	1,720	3,025	4,064	4,747	4,951
lorida	48,225	42,720	32,801	36,986	32,925	38,634
eorgia	24,018	20,054	25,861	37,321	39,542	42,548
eorgia	24,016			,	,	,
lawaii		216	223	221	232	252
laho	3,876	4,186	5,684	6,585	7,284	8,295
linois	46,356	51,280	79,927 NA	110,485	107,855	146,173
idiana	31,509	32,851	11/5	62,620	57,078	68,688
owa	11,021	13,167	20,383	30,256	25,941	33,082
ansas	18,793	17,585	19,364	29,491	26,029	31,116
entucky	10,292	11,505	14,076	21,967	21,257	26,211
ouisiana	ŃA	111,328	101.836	110,398	97,310	111,920
laine	305	335	470	610	629	777
aryland	9.612	10,503	14,145	27,315	28,426	33,158
lassachusetts	NA NA	21,846	29,256	36,408	38,350	42,828
	43.866	51,642	77,995	106,043	106,517	119.774
lichigan	14,579	,	21,649	37,306	36,306	46,151
linnesotalississippi	R18,596	14,749 ^R 17,372	R15,119	R18,465	17,463	R18,722
	40.500	10.711	04.004	00.000	04.074	40.704
lissouri	12,566	13,741	21,664	33,690	34,874	40,704
lontana	3,638	2,838	4,240	5,477	5,313	7,480
ebraska	5,849	6,946	9,830	13,612	13,802	16,322
evada	9,447	9,976	11,035	11,071	11,832	12,723
ew Hampshire	999	1,226	1,864	2,183	2,585	2,788
ew Jersey	31,639	41,616	47,096	65,242	66,099	70,507
ew Mexico	^R 8,579	^R 11,181	^R 11,954	^R 14,537	R12,873	R18,386
ew York	^R 71,088	ŃA	82,436	107,969	115,160	R130,336
orth Carolina	15,680	14,761	17,721	23,352	25,906	28,061
orth Dakota	1,374	1,770	2,804	3,853	3,944	4,673
hio	38,783	45,665	67,612	98,218	99.776	113,599
Pklahoma	40,753	33,071	32,204	43,151	40,846	44,699
	,	,	32,204 NA	43,131 NA	,	,
Oregon	10,671	10,944	NA NA		17,736	21,237
ennsylvaniahode Island	31,351 4,612	34,776 ^R 5,733	NA NA	72,421 7,900	75,456 7,949	75,437 9,352
		,		,	,	
outh Carolina	11,503	11,680	12,349	15,673	17,097	18,065
outh Dakota	1,209	2,114	2,244	3,588	3,464	4,445
ennessee	16,972	17,809	21,904	31,153	28,238	ŃA
exas	R320,668	R294,670	R267,069	R288,086	R252,538	R289,282
tah	6,931	7,559	12,218	14,697	16,652	17,827
ermont	347	409	716	918	1,085	1,202
irginia	14,963	14,715	18,956	25,191	27,386	27,819
/ashington	NA	NA	NA	NA NA	NA NA	NA NA
/est Virginia	NA	NA	9,140	12,281	9,941	13,133
/isconsin	18,703	19,671	27,884	44,076	39,114	51,531
/yoming	5,041	5,547	^R 5,396	NA NA	NA NA	8,805

Table 19. Natural Gas Deliveries to All Consumers, by State, 1996-1998

State			19	97		
State	Total	December	November	October	September	August
	000 004		0.4.000	00.005	40.074	04.774
labama	,	30,822	24,666	20,865	19,874	21,774
aska	,	15,172	12,560	13,113	8,844	10,563
rizona	,	11,575	6,994	6,675	10,639	9,851
kansas	244,644	23,947	19,854	17,536	16,564	19,396
alifornia	1,850,248	185,860	147,134	137,655	164,736	156,325
olorado	263,988	34,668	23,250	12,664	10,469	11,882
onnecticut	134,557	15,769	11,812	9,002	6,681	7,525
elaware	46,480	4,356	3,196	2,086	2,211	2,965
strict of Columbia	33,824	4,795	2,768	1,452	1,245	1,226
orida	,	38,205	29,083	35,159	40,597	48,113
eorgia	353,700	41,536	35,681	23,924	19,492	21,587
ıwaii	,	552	78	191	188	184
aho		7,186	5,519	4.449	3.487	3,021
nois	,	132,707	110,989	70,209	42,581	40,316
		64,388		,	,	,
liana	040,33 <i>1</i>	U 4 ,300	54,190	37,412	27,504	26,411
va	-, -	30,016	24,461	17,115	11,323	11,251
nsas	,	29,528	22,869	14,839	12,763	15,259
ntucky	- /	26,707	21,185	14,189	9,760	9,195
uisiana	1,360,160	112,335	102,939	113,454	117,136	123,872
ine	6,247	735	694	488	332	296
ryland	204,319	31,410	17,582	11,557	9,379	9,962
ssachusetts	,	38,594	30,037	22.843	20,155	22,316
chigan	,	112,039	89,089	55,893	41,643	39,832
nnesota		39,996	36,158	21,195	12,500	13,651
ssissippi	,	19,424	16,400	14,616	15,793	20,654
anauri	276 424	25.740	2F 040	10.114	0.059	10.011
ssouri	- /	35,740	25,019	12,114	9,958	10,011
ontana	,	7,361	5,273	3,728	2,287	2,167
braskabraska	,	14,339	10,024	7,229	5,472	7,103
vada	,	12,443	7,850	9,176	10,741	12,283
w Hampshire	20,822	2,445	1,788	1,237	937	901
w Jersey	617,638	73,183	53,491	35,294	28,244	34,275
w Mexico	142,353	18,573	12,587	8,917	8,133	9,587
w York	1,220,113	123,888	101,134	75,512	71,369	80,369
orth Carolina	206.940	24,543	18,390	13.802	11,392	11.394
rth Dakota	42,826	4,737	3,787	2,549	2,025	2,025
io	878,124	107,489	83,928	55,298	36,252	34,081
lahoma	,	45,168	34,038	29,638	34,074	41,433
egon	,	19,704	14,600	12,135	12,639	12.849
•	,	,	,	,	,	,
nnsylvania ode Island		79,772 8,703	62,794 7,312	40,047 5,308	28,446 4,738	27,918 4,756
outh Carolina		16,582	12,978	10,282	11,399	10,059
outh Dakota	,	3,735	3,069	1,556	1,152	1,210
nnessee		32,226	23,385	15,919	13,668	15,880
xas	, ,	301,259	280,454	282,035	312,902	338,035
ah	137,605	20,196	13,494	10,669	6,475	6,849
rmont	8,052	988	723	529	345	293
ginia	232,674	30,339	20,442	13,107	11,415	14,548
ashington	,	30,513	25,964	15,906	16,143	14,325
est Virginia		14,615	11,696	7,894	6,412	6,360
sconsin	,	47,139	41,199	26,442	16,682	15,970
oming		7,494	6,457	5,066	3,926	4,369
	. 5,7 57	.,	0, 101		5,020	1,000
otal	20,018,151	2,135,495	1,731,064	1,379,970	1,293,122	1,366,476

Table 19. Natural Gas Deliveries to All Consumers, by State, 1996-1998

State			1	997		
State	July	June	May	April	March	February
Nahara	00.007	00.045	00.000	00.547	05.000	00.004
labama	,	20,045	22,082	23,547	25,026	29,884
.laska		10,403	11,097	12,740	15,180	13,086
ırizona		7,229	8,782	7,625	10,311	11,087
ırkansas		17,581	16,536	18,160	20,770	24,954
California	155,009	125,567	141,632	141,973	152,681	161,518
olorado	10,936	13,495	20,011	23,411	31,870	34,595
Connecticut		7,442	9,037	13,055	14,564	16,227
elaware		2,849	3,351	4,779	5,664	5,937
istrict of Columbia		1,513	2,317	3,054	4,232	4,971
lorida		45,791	44,670	43,228	44,393	33,118
· aarala	24.694	40.000	22.604	20 520	20.474	44 540
eorgialawaii		18,692 192	23,684 189	29,529 196	30,471 206	41,548 217
laho		3,555	4,297	5,683	6,452	7,126
linois		44,784	64,825	89,183	116,802	132,342
		,	,	,	,	
ndiana	26,781	27,343	36,167	46,045	57,477	64,759
wa	,	11,230	14,752	19,933	25,141	28,676
ansas		14,872	15,156	19,057	22,487	26,477
Centucky	9,522	9,369	12,400	15,491	19,724	23,369
ouisiana	125,051	116,921	114,992	108,177	107,402	105,443
laine		326	436	565	703	643
laryland	12,289	12,027	12,557	17,099	21,207	23,122
		27,915	24,821	,	42,439	44,773
lassachusetts	,	,	,	38,118	,	,
1ichigan		48,092	70,858	88,367	113,055	121,766
linnesota		14,390	19,634	28,484	39,766	43,355
Aississippi	23,023	17,045	13,616	13,472	15,318	17,971
lissouri		11,925	15,195	24,205	28,831	45,663
Montana	2,016	2,303	3,275	4,578	5,897	6,713
lebraska	7,678	6,238	8,891	11,628	14,296	16,336
levada	11,610	10,009	10,945	9,659	11,952	10,089
lew Hampshire	817	1,353	1,496	2,121	2,443	2,688
lew Jersey	35,224	33,854	39,652	55,888	78,447	69,857
ew Mexico	,	7,610	9,965	9,412	13,316	15,883
	,	,		,	,	,
lew York		88,040	87,576	104,095	129,322	135,768
lorth Carolina		13,021	14,350	16,779	19,270	25,313
lorth Dakota	1,694	2,231	2,876	4,001	5,200	5,777
hio		52,496	58,563	74,110	96,926	112,029
klahoma	40,951	33,513	30,552	34,243	38,138	43,685
Oregon	9,489	7,802	9,535	11,844	14,341	15,542
ennsylvania	29,477	30,274	44,540	59,808	73,278	83,975
thode Island	5,074	5,715	6,911	7,507	8,622	8,649
outh Carolina	10,397	10,994	11,689	12,137	13,437	15,328
	,	1,471	2,004	2,899	,	4,505
South Dakota					3,603	
ennessee		14,849	15,826	21,437	24,113	34,123
exas	, -	293,254	269,575	257,495	295,126	277,052
tah	6,720	5,971	6,858	11,439	13,258	16,662
ermont		354	569	782	1,048	1,059
irginia	15,383	12,414	16,528	20,044	21,350	27,486
Vashington		12,401	15,918	14,772	19,893	21,333
Vest Virginia		6,478	8,845	13,069	9,980	13,525
Visconsin		17,020	26,053	33,620	45,960	47,865
Vyoming		4,738	6,145	6,101	6,734	6,756
Total	1 204 742	1 204 006	1 422 220	1 634 645	1 029 122	2 000 624
Total	1,384,742	1,304,996	1,432,229	1,634,645	1,938,123	2,080,624

R = Revised Data.
NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. Gas volumes delivered for use as vehicle fuel are included in the annual total for commercial deliveries but not in the monthly components. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers" and Form EIA-759, "Monthly Power Plant Report."

Table 20. Average City Gate Price, by State, 1996-1998

(Dollars per Thousand Cubic Feet)

Alabama	3.25 1.72 2.59 2.88 2.32	3.85 1.81 3.19	YTD 1996	September	August	July	June	May
AlaskaArizona Arkansas	1.72 2.59 2.88	1.81	3.38					
laskarizonarkansasalifornia	1.72 2.59 2.88	1.81	3.38					
urizona	2.59 2.88			3.43	3.82	3.97	3.86	3.56
Arkansas California Colorado	2.88	3.19	1.58	1.71	1.71	1.64	1.67	1.68
CaliforniaColorado			2.39	2.76	2.84	2.85	2.60	2.93
CaliforniaColorado	2.32	3.17	2.55	1.88	2.38	3.23	2.31	3.00
		2.96	2.37	1.95	2.46	2.39	2.34	2.49
	NA	2.89	2.29	NA	R2.26	NA	2.43	2.46
	5.13	5.29	5.07	4.69	4.87	5.14	4.74	5.08
elaware	2.77	3.39	3.58	3.76	2.70	2.86	4.35	1.79
istrict of Columbia		_	_	_	_	_	_	_
lorida	3.32	3.88	3.62	2.99	3.10	3.14	2.96	3.15
a a rai a	2.44	4.07	2.00	2.27	2.45	2.57	2.04	2.55
eorgia	3.44	4.07	3.66	3.37	3.45	3.57	3.01	3.55
awaii	5.41	6.51	5.91	5.12	5.06	4.77	4.86	5.21
laho	1.98	2.22	2.26	2.38	2.14	2.81	R2.18	1.94
inois	2.80	3.20	3.17	2.24	2.49	3.16	2.15	3.64
diana	NA	2.98	2.99	NA	NA	NA	NA	2.80
owa	3.59	3.78	3.37	4.00	4.29	4.11	1.98	4.17
ansas	3.10	3.33	2.88	2.83	3.03	4.31	3.66	3.17
entucky	3.29	3.70	3.23	3.58	2.85	3.57	3.12	3.33
ouisiana	2.34	2.94	3.03	2.01	2.05	2.45	2.19	2.36
laine	NA NA	4.23	4.42	2.69	3.21	5.39	NA NA	NA NA
londond	NA	4.04	2.00	NA	F 96	7.60	F 0.4	F F0
laryland	NA	4.01	3.98	NA	5.86	7.62	5.94	5.58
lassachusetts		3.91	3.93		7.10	5.83	5.52	4.56
lichigan	2.79	2.90	2.84	2.69	2.79	2.92	2.50	2.69
linnesota	3.05 NA	3.42	2.91	2.78 NA	3.06 NA	3.31	2.88	3.24 NA
lississippi		3.29	3.15			R3.09	^R 2.86	
lissouri	3.44	3.79	3.05	4.50	4.61	5.12	4.87	4.47
Iontana	2.39	3.30	2.92	2.20	1.87	2.27	2.39	2.22
ebraska	3.33	3.79	2.88	2.90	3.01	3.65	2.98	3.73
evada	3.24	3.50	2.82	3.79	4.43	3.75	3.37	3.25
ew Hampshire	NA	4.20	4.16	3.34	NA	4.63	NA	3.36
ew Jersey	NA	4.15	3.75	NA	3.75	3.86	3.57	3.00
lew Mexico	2.07	2.52	1.51	1.64	1.86	1.94	1.76	2.04
	NA	3.16	3.32	NA	NA	R3.34	R2.88	2.04 NA
ew York			3.32 3.71				3.83	
orth Carolinaorth Dakota	3.60 2.65	4.00 3.31	3.71 2.75	3.20 2.11	3.43 1.51	3.95 2.57	3.83 2.34	3.66 2.74
hio	NA	5.46	4.16	3.55	4.70	NA	4.75	5.04
klahoma	2.57	3.09	2.55	2.73	2.61	2.38	2.51	2.46
regon	NA	2.61	2.33	2.93	3.60	4.13	3.22	2.78
ennsylvania	NA	4.07	3.66	5.18	NA	5.50	4.79	3.94
hode Island	NA	4.58	4.38	4.23	3.53	3.68	3.61	3.70
outh Carolina	3.50	3.74	3.86	3.48	3.57	4.09	3.81	3.90
outh Dakota	3.45	3.71	2.99	3.91	4.68	4.27	2.91	4.42
ennessee	NA NA	3.11	3.87	2.42	2.77	3.12	3.39	3.90
		3.58						
exas	2.91		3.05	2.46	2.70	2.91	2.65	2.97
tah	3.20	2.58	2.16	3.37	3.48	2.64	2.73	2.62
ermont	2.65	2.19	2.88	2.26	2.34	2.60	2.69	2.82
irginia	3.83	4.20	3.74	4.52	5.14 NA	4.51	4.32	4.37
ashington	NA	2.65	2.33	NA		NA	NA	NA
est Virginia	NA	3.15	3.34	3.59	NA	NA	NA	NA
/isconsin	3.48	3.70	3.28	4.97	^R 4.38	^R 4.36	R3.82	3.63
Vyoming	NA NA	3.06	2.45	2.46	R2.93	NA NA	2.53	NA NA
Total	3.15	3.53	3.21	2.75	R3.13	R3.36	R2.98	3.11

Table 20. Average City Gate Price, by State, 1996-1998

Ctata			998		1997					
State	April	March	February	January	Total	December	November	Octobe		
			0.00	0.40	0.05		0.07			
labama	3.20	3.03	2.93	3.18	3.65	2.60	3.97	4.17		
llaska	1.71	1.73	1.72	1.75	1.81	1.82	1.82	1.78		
rizona	2.75	2.55	2.28	2.46	3.15	2.53	3.48	3.80		
rkansas	2.96	3.13	2.85	3.09	3.23	3.19	3.44	3.61		
alifornia	2.33	2.38	2.12	2.35	2.98	2.65	3.30	3.18		
Colorado	NA	NA	NA	NA	2.92	2.57	3.59	2.71		
onnecticut	5.89	4.87	5.24	5.23	5.11	5.55	3.87	4.96		
elaware	2.63	2.73	3.02	2.71	3.53	2.43	5.78	5.23		
istrict of Columbia	_	_	_	_	_		_	_		
lorida	3.92	3.25	3.20	3.81	3.97	3.85	4.45	4.64		
Seorgia	3.63	3.85	3.18	3.43	3.98	3.65	4.01	4.05		
lawaii	5.21	6.25	5.75	6.40	6.42	6.23	6.22	6.09		
daho	1.96	1.81	1.94	1.89	2.12	1.79	2.07	2.01		
linois	2.90 NA	2.81	2.85	2.78	3.28	2.92	3.72	4.00		
ndiana	NA	2.32	2.48	2.49	3.03	2.79	3.21	3.64		
owa	3.33	3.42	3.33	3.80	4.06	4.45	4.85	4.98		
ansas	2.79	2.86	2.73	3.56	3.47	3.60	4.28	3.67		
entucky	3.99	3.23	3.09	3.22	3.83	4.07	4.28	3.83		
ouisiana	2.29	2.53	2.25	2.81	3.04	2.86	3.75	3.44		
laine	3.25	3.25	3.25	3.25	3.84	3.10	2.72	4.11		
laryland	4.37	3.44	3.43	2.96	4.02	3.57	4.22	4.69		
lassachusetts	3.48	3.30	2.89	3.40	3.85	3.09	4.14	4.52		
lichigan	2.78	2.97	2.89	2.94	2.99	3.19	3.51	3.12		
linnesota	2.95	3.00	2.90	3.27	3.67	4.06	4.52	4.26		
lississippi	NA NA	NA NA	2.99	NA NA	3.39	3.31	3.83	3.86		
A::	0.70	2.07	2.00	2.00	0.75	2.42	2.00	4.00		
Missouri	3.72	2.97	2.99	2.96	3.75	3.13	3.92	4.66		
Iontana	2.29	2.50	2.41	2.71	3.16	2.51	3.15	4.47		
lebraska	3.29	2.98	2.70	4.71	4.24	5.31	6.30	5.76		
levada	3.00	3.29	3.00	3.03	3.39	2.84	3.71	3.46		
lew Hampshire	3.37	3.93	3.74	3.77	4.10	3.72	4.02	3.95		
lew Jersey	3.54	3.53	3.38	4.37	4.19	3.77	4.49	4.84		
lew Mexico	2.19	2.20	2.02	2.24	2.53	2.31	2.85	2.59		
lew York	3.01	NA	NA	NA	3.51	3.33	4.00	3.68		
lorth Carolina	3.91	3.49	3.47	3.65	3.97	3.72	4.09	3.95		
lorth Dakota	2.86	2.91	2.85	2.93	3.38	3.01	4.01	3.73		
Phio	4.89	4.87	4.27	4.82	5.18	4.35	4.66	5.09		
	2.36	2.38	2.61	2.86	3.12	3.33	3.19	3.04		
Oklahoma	2.30 NA	2.38 NA					2.73			
regon	NA		2.31	2.53	2.58	2.42		2.48		
ennsylvaniahode Island	NA	5.26 3.38	3.64 3.35	3.68 3.93	4.09 4.49	3.84 4.02	4.20 4.46	4.60 4.53		
	0.00									
outh Carolina	3.66	3.34	3.05	3.37	3.81	3.72	4.13	4.15		
outh Dakota	4.37	2.60	3.66	3.22	3.65	3.46	3.68	3.43		
ennessee	6.62	2.42	3.84	NA	3.36	3.66	4.37	3.93		
exas	2.94	2.84	2.87	3.26	3.66	3.97	3.86	3.57		
tah	2.89	3.23	3.68	3.25	2.79	3.46	3.07	2.64		
ermont	2.74	2.92	2.66	2.59	2.33	2.64	2.77	2.34		
irginia	3.64	3.25	3.63	3.97	4.14	3.69	4.11	4.71		
/ashington	NA .	NA NA	NA	NA	2.62	2.39	2.82	2.27		
Vest Virginia	3.61	2.58	3.15	3.34	3.17	3.11	3.07	3.62		
vest virginia	3.54	3.33	2.99	3.21	3.67	3.32	3.75	3.91		
lyoming	3.54 R1.28	3.33 3.29	3.31	NA NA	3.07	2.93	3.61	3.25		
-										

Table 20. Average City Gate Price, by State, 1996-1998

				19	97			
State	September	August	July	June	Мау	April	March	Februar
Alabama	3.83	3.88	4.10	3.86	3.54	3.16	3.20	4.02
Alaska	1.79	1.73	1.74	1.70	1.78	1.81	1.84	1.80
Arizona	3.74	3.16	2.98	3.32	3.18	2.61	2.22	2.85
Arkansas	2.87	3.28	2.78	2.77	2.59	2.48	2.46	3.16
California	2.74	2.79	3.72	2.67	2.55	2.30	2.25	3.21
Colorado	2.66	2.41	2.67	2.57	2.42	2.52	2.32	3.01
Connecticut	5.29	5.33	4.55	4.76	4.81	4.94	4.82	6.00
Delaware	1.44	3.17	3.35	3.42	3.17	2.88	3.69	4.48
District of Columbia	_	_	_	_	_	_	_	_
Florida	3.82	3.31	3.41	3.50	3.09	3.62	4.04	4.56
Seorgia	5.29	3.89	3.95	4.37	3.20	3.08	3.31	4.15
ławaii	6.11	6.35	6.59	5.46	6.47	7.21	6.50	7.73
daho	2.17	2.50	2.16	2.83	2.98	2.08	1.85	2.13
llinois	3.78	3.37	2.81	3.11	3.06	2.48	2.43	3.30
ndiana	3.15	2.87	2.54	2.35	2.32	2.07	2.31	3.20
owa	5.39	5.86	6.62	4.75	3.50	2.83	3.05	3.66
Cansas	3.47	3.09	2.88	3.02	2.85	2.38	2.67	3.67
Centucky	3.57	3.62	3.68	3.69	3.30	3.62	3.41	3.47
ouisiana	3.02	2.50	2.58	2.64	2.41	2.37	2.44	3.46
Maine	3.79	4.43	4.34	4.53	4.69	3.43	4.26	3.52
Maryland	5.77	6.05	5.81	4.34	4.33	3.21	3.24	3.83
Massachusetts	5.00	4.91	5.29	5.61	2.86	3.26	2.97	4.12
/lichigan	2.87	2.63	2.54	2.69	2.60	2.56	2.66	3.28
Minnesota	4.02	2.97	3.92	3.49	2.64	2.41	2.70	3.48
Mississippi	3.25	2.88	2.87	2.95	2.43	2.89	2.82	3.48
Missouri	5.08	4.80	4.62	5.32	3.96	3.12	2.79	3.51
	3.76	3.96	3.63	3.91	2.28	3.09	2.70	3.50
Montana								
lebraska	7.03	5.51	4.96	4.09	3.11	2.28	3.02	3.75
levada	4.12	3.99	3.87	3.64	2.72	2.81	2.96	3.37
New Hampshire	4.02	4.45	4.28	4.34	3.66	3.15	3.99	4.42
lew Jersey	4.34	4.41	4.29	4.21	3.86	3.15	3.99	4.21
lew Mexico	2.62	2.18	2.13	2.13	2.04	1.91	1.38	2.39
lew York	2.92	2.79	2.59	2.87	2.64	2.69	2.85	3.65
North Carolina	4.13	3.96	3.90	3.84	3.83	3.40	3.51	4.34
North Dakota	3.53	3.36	3.14	3.17	2.95	2.50	2.43	3.59
Ohio	4.91	5.51	7.16	6.45	5.96	5.79	5.01	5.41
Oklahoma	2.58	2.66	3.23	2.66	2.22	2.22	3.09	3.68
Oregon	3.12	4.01	3.45	3.00	3.02	1.95	1.92	2.35
Pennsylvania	4.22	4.95	4.32	4.90	4.30	3.48	3.48	4.12
Rhode Island	4.22 5.71	4.95 6.64	4.32 7.53	4.90 6.42	4.30	3.46	3.48	4.12
South Carolina	4.03	3.86	3.74	3.78	3.54	3.25	2.95	3.97
South Dakota	4.03	4.26	4.40	4.58	3.75	3.02	2.78	3.95
ennessee	2.78	2.51	2.71	2.82	2.96	2.51	2.78	3.73
exas	3.21	3.11	3.23	3.01	2.50	2.38	3.01	4.16
Jtah	2.81	3.02	2.83	2.35	1.93	2.15	2.69	2.76
ermont	2.29	2.33	2.41	2.58	2.77	2.39	2.26	2.16
/irginia	4.69	4.47	4.27	3.77	5.12	3.28	3.49	3.96
Vashington	2.44	2.41	2.53	2.28	2.53	2.70	1.89	2.62
Vest Virginia	3.53	3.90	1.87	3.90	3.02	2.88	2.17	3.54
Visconsin	4.63	5.12	3.71	5.09	3.49	3.11	2.89	3.54
Vyoming	3.35	2.90	2.94	2.85	1.64	2.48	3.19	3.61
Total	3.50	3.34	3.44	3.41	3.11	2.92	3.04	3.76
10tal	5.50	5.54	J. 44	J.41	3.11	2.92	3.04	3.76

R = Revised Data.
NA = Not Available.
- = Not Applicable.

^{— =} Not Applicable.

Notes: Geographic coverage is the 50 States and the District of Columbia. Prices in this table represent the average price of natural gas by State at the point where the gas transferred from a pipeline to a local distribution company within the State. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1996-1998

(Dollars per Thousand Cubic Feet)

	YTD	YTD	YTD	1998						
State	1998	1997	1996	September	August	July	June	Мау		
labama	7.84	8.52	7.06	10.71	10.78	11.13	10.91	8.9		
llaska	3.68	3.82	3.44	3.01	3.75	4.71	4.02	3.8		
rizona	8.35	7.59	7.57	13.01	13.19	12.24	11.02	9.5		
rkansas	7.42	6.70	5.73	8.81	8.99	9.03	8.72	5.8		
alifornia	6.95	6.59	6.47	7.01	7.21	7.07	7.32	7.0		
colorado	NA	4.72	4.46	8.36	^R 7.44	NA	NA	5.2		
Connecticut	10.50	10.37	9.96	11.73	11.80	11.62	11.11	11.5		
elaware	8.75	8.29	6.91	12.78	12.61	11.67	10.99	9.4		
istrict of Columbia	8.86	9.19	8.95	11.22	8.59	8.87	8.50	9.7		
lorida	11.50	11.66	10.54	13.56	13.59	13.79	13.30	13.0		
corgia	7.90	8.07	6.70	15.53	15.94	16.76	11.73	13.5		
eorgia awaii	19.33	22.05	19.65	13.34	23.96	18.60	18.75	19.3		
laho	5.34	5.09	5.23	6.55	6.71	6.26	5.86	5.59		
inois	5.65 NA	6.11	5.30	8.06 NA	8.16 NA	8.69 NA	8.09	7.9		
ndiana	NA	6.61	5.46	NA	NA	NA	9.95	8.8		
wa	6.07	6.07	5.41	10.97	10.78	11.56	8.41	7.8		
ansas	6.13	6.47	5.52	7.97	7.94	8.04	7.61	6.6		
entucky	6.04	6.35	5.32	9.19	9.75	7.87	8.15	7.1		
ouisiana	6.52	7.13	6.54	8.91	8.84	8.85	8.36	8.9		
laine	8.11	8.59	7.76	8.88	9.13	9.11	8.33	8.60		
aryland	NA	8.40	7.55	NA	11.52	12.03	10.82	9.8		
lassachusetts	NA	9.36	8.78	NA	11.36	10.45	NA	NA		
lichigan	5.20	5.21	4.89	6.96	7.35	7.12	6.23	5.8		
linnesota	5.53	5.77	5.30	7.04	7.32	7.57	7.15	6.4		
lississippi	NA NA	6.33	5.52	NA NA	NA NA	^R 7.60	^R 7.32	R6.4		
lissouri	6.53	6.53	5.89	9.86	10.94	9.76	8.84	7.4		
Iontana	NA	4.88	4.85	7.04	6.89	6.70	6.44	NA		
	F 00							5 0		
ebraska	5.28	5.54	4.72	6.91	7.12	6.87	6.42	5.99		
evada	7.12	6.16	6.24	9.25	9.27 NA	8.69	7.74	7.30		
ew Hampshire	NA	8.50	7.08	9.03	NA	9.15	8.20	7.0		
ew Jersey	NA	7.98	7.13	NA	9.93	9.63	9.32	6.8		
ew Mexico	5.81	6.74	4.68	10.19	10.57	10.89	31.23	9.6		
ew York	NA	9.66	NA	NA	R13.55	^R 7.01	NA	NA		
orth Carolina	8.54	9.23	7.38	12.56	13.29	12.05	11.81	9.29		
orth Dakota	5.21	4.69	4.68	7.69	9.87	7.09	7.03	5.9		
hio	NA	6.88	5.63	9.30	9.89	NA	7.35	6.5		
klahoma	6.06	6.32	5.57	9.50	9.33	8.91	8.37	6.8		
regon	NA	6.21	6.35	8.78	9.04	8.33	7.48	7.1		
ennsylvania	NA	8.46	7.20	NA	NA .	11.22	10.51	9.02		
hode Island	NA	9.67	8.30	12.15	12.14	11.94	10.94	9.6		
outh Carolina	8.33	8.57	7.29	10.10	10.32	10.18	9.76	8.4		
outh Dakota	5.70	5.58	5.15	8.38	8.63	8.90	6.54	6.8		
ennessee	NA	6.96	6.29	8.51	9.03	8.68	8.15	6.9		
exas	6.34	6.38	5.83	8.79	8.97	8.86	7.94	7.3		
tah	5.68	5.06	5.83 4.43	6.13	8.97 7.01	6.70	7.94 5.39	7.3 5.7		
o rem a m t	6.50	6.40	0.00	E 40	0.77	0.04	0.00	7.0		
ermont	6.50	6.40	6.38	5.12	8.77	8.91	8.08	7.2		
irginia	8.65 NA	8.60	7.69	12.22 NA	12.28 NA	12.22 NA	11.73 NA	10.14 NA		
/ashington		5.59	5.67							
/est Virginia	NA	7.13	7.03	NA	NA	NA	NA	NA		
/isconsin	6.17	6.38	5.91	6.51	6.82	7.16	6.50	6.2		
Vyoming	NA	4.18	4.43	6.74	6.58	NA	5.99	5.79		
Total	6.89	6.99	6.27	8.93	^R 9.18	^R 8.62	^R 8.41	7.5		

Table 21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1996-1998

		1	998	1997				
State	April	March	February	January	Total	December	November	Octobe
labama	7.73	7.00	7.10	7.41	8.35	7.28	7.95	11.05
laska	3.66	3.71	3.65	3.56	3.77	3.62	3.69	3.75
rizona	8.14	7.39	7.40	7.23	7.83	7.61	9.20	11.36
rkansas	6.86	6.41	6.50	9.42	6.67	6.26	6.43	8.70
alifornia	6.80	6.78	6.49	7.28	6.81	7.20	7.48	7.80
olorado	4.74	4.49	4.57	4.50	4.81	4.73	5.18	5.96
onnecticut	9.78	10.18	10.33	10.36	10.33	10.15	10.30	10.27
elaware	8.51	8.15	8.08	8.07	8.36	8.04	8.69	10.74
istrict of Columbia	8.86	8.62	8.44	9.01	9.39	8.97	11.01	11.27
lorida	11.34	10.51	10.47	10.33	11.90	11.78	13.01	13.85
eorgia	7.09	5.78	6.15	6.40	7.41	6.05	5.91	8.08
awaii	19.21	19.87	20.46	19.99	21.74	20.43	20.87	21.07
daho	5.38	5.18	5.14	5.01	5.12	4.98	5.28	5.66
inois	5.79	4.90	4.91	4.88	5.95	5.38	5.65	6.05
diana	5.79 NA	4.90 6.13	6.22	4.88 6.12	5.95 6.37	5.51	5.85	6.65
wa	6.36	4.79	4.97	5.49	6.17	6.02	6.41	7.69
ansas	5.92	5.76	5.80	5.82	6.42	5.92	6.42	7.68
entucky	6.56	5.25	5.47	5.48	6.37	6.39	6.09	7.41
ouisiana	6.46	5.28	5.60	6.10	7.16	6.34	7.88	9.43
aine	7.90	7.90	7.90	7.90	8.47	8.36	8.21	7.80
aryland	8.36	7.53	7.36	7.38	8.36	7.38	8.71	9.91
assachusetts	9.64	9.37	9.26	9.19	9.43	9.94	9.70	8.51
ichigan	5.11	4.69	4.92	4.85	5.20	4.98	5.13	5.80
linnesota	5.60	5.18	5.11	5.07	5.76	5.09	6.04	6.67
ississippi	^R 5.88	NA NA	5.39	NA NA	6.35	5.74	6.79	8.40
lissouri	6.14	5.58	5.86	6.30	6.61	6.46	6.70	8.86
	5.15	4.97	5.03	4.87	5.05	5.31	5.39	5.81
lontana								
ebraska	5.09	4.74	4.93	5.28	5.69	6.01	6.01	7.31
evada	6.90	6.80	6.79	6.53	6.27	6.18	6.72	7.64
ew Hampshire	6.50	8.50	8.38	8.30	8.48	8.46	8.87	7.47
ew Jersey	7.71	7.39	7.23	7.41	7.93	7.62	7.77	8.53
ew Mexico	6.26	4.55	5.23	3.72	5.87	3.68	4.56	8.48
ew York	9.26	8.54	8.62	^R 8.75	9.73	9.34	9.93	11.38
orth Carolina	7.91	7.77	7.93	8.33	8.98	8.03	8.21	11.17
orth Dakota	5.12	4.79	4.68	4.52	4.99	5.67	5.81	6.50
hio	6.22	5.97	5.75	6.25	6.75	6.20	6.31	7.40
klahoma	5.56	5.43	5.73	5.56	6.23	5.44	6.06	8.77
	NA NA	NA	6.44	6.09	6.21	6.01	6.28	6.59
regon	NA	8.05	8.03	9.60		7.75	7.87	8.98
ennsylvaniahode Island	NA	9.03	8.86	8.83	8.33 9.61	8.97	9.74	10.64
	7.00							
outh Carolina	7.88	8.02	8.27	8.17	8.37	7.77	7.79	9.28
outh Dakota	5.88	5.31	5.07	5.01	5.75	5.94	6.16	7.07
ennessee	6.42	5.96	6.31	NA	6.91	6.66	6.68	8.26
exas	6.29	5.14	6.58	5.42	6.32	5.59	6.40	8.00
ah	4.85	5.51	5.73	5.83	5.13	5.29	5.70	4.65
ermont	6.45	6.30	6.23	6.19	6.41	6.21	6.43	7.06
irginia	8.28	7.75	8.05	8.11	8.60	7.90	8.80	10.85
/ashington	NA	NA	NA	NA	5.64	5.68	5.75	5.83
/est Virginia	7.55	6.85	6.78	6.81	6.81	5.87	6.63	6.02
/isconsin	6.02	6.28	5.98	5.96	6.43	6.28	7.13	5.98
/yoming	5.25	5.13	5.14	NA NA	4.58	6.16	5.26	5.54
Total								

Table 21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1996-1998

C4-4-	<u> </u>			19	97	1997										
State	September	August	July	June	May	April	March	February								
Johama	11.56	11.64	11 21	10.40	9.65	9.17	9.61	7.57								
labama			11.21	10.40	8.65		8.61	7.57								
laska	3.94	4.49	4.43	4.27	3.88	3.75	3.75	3.67								
Arizona	9.13	10.57	10.08	9.62	8.71	7.95	7.05	6.83								
Arkansas	9.57	9.29	8.68	8.26	6.96	6.43	6.17	6.12								
California	7.42	7.56	7.05	7.70	6.38	6.18	6.42	6.27								
Colorado	7.16	6.95	6.91	5.94	4.91	4.71	4.38	4.31								
Connecticut	11.45	11.35	11.22	10.59	10.59	9.96	9.55	10.84								
Delaware	11.79	11.86	11.61	10.06	8.87	8.19	7.89	7.70								
District of Columbia	11.34	8.40	8.46	8.28	9.18	8.74	8.57	9.36								
Florida	14.01	14.09	13.72	13.25	12.51	12.07	11.35	10.01								
Seorgia	10.62	11.74	11.85	12.36	10.41	6.22	8.87	7.30								
ławaii	21.36	21.64	21.20	21.54	21.81	21.33	22.32	25.59								
						5.10	4.95									
daho	6.37	6.52	6.16	5.81	5.26			4.80								
llinois	8.01	7.88	7.84	7.94	5.43	5.10	5.28	6.50								
ndiana	8.81	9.44	10.22	8.89	7.26	6.73	6.31	6.09								
owa	11.05	10.11	9.41	7.97	6.13	5.16	5.49	5.92								
Cansas	8.49	8.21	7.47	7.98	6.20	6.00	5.94	6.54								
Centucky	7.82	9.10	8.52	7.44	6.57	6.74	6.23	5.93								
_ouisiana	8.96	8.49	8.21	8.21	7.25	5.96	6.27	6.89								
Maine	9.46	9.25	9.69	8.39	7.95	9.05	8.65	8.66								
Maryland	10.72	11.35	10.88	9.62	8.26	8.14	7.73	8.12								
Massachusetts	10.00	10.39	9.78	8.25	7.43	9.82	9.62	9.54								
		7.33	6.95		5.15	9.62 4.97	4.87	4.99								
Aichigan	6.88			6.21												
Ainnesota Aississippi	8.31 8.06	7.94 7.91	7.76 7.62	6.78 7.45	5.39 7.00	4.63 6.50	4.73 5.56	5.70 5.68								
Missouri	9.63	9.42	8.81	7.58	5.91	5.35	5.73	6.53								
Montana	6.70	6.95	7.42	6.07	4.98	4.71	4.67	4.47								
Nebraska	7.67	7.47	7.21	6.48	4.51	4.77	4.72	5.58								
Nevada	7.92	7.96	7.55	7.28	6.61	6.14	5.76	5.74								
New Hampshire	8.93	9.17	9.01	7.59	6.62	6.62	9.36	9.24								
New Jersey	9.91	10.12	9.80	9.55	8.45	7.18	7.56	7.68								
New Mexico	11.05	11.33	11.85	41.56	6.66	8.95	4.55	5.19								
New York	12.59	11.62	12.70	10.83	9.01	8.51	8.86	9.55								
	13.08	13.12	12.70	10.83	8.56	8.66	9.57	8.74								
North Carolina	7.36	7.39	7.19	6.29		4.20	4.21	4.38								
NOTHI Dakota	7.30	7.39	7.19	0.29	5.33	4.20	4.21	4.30								
Ohio	8.29	8.46	8.71	7.42	6.74	6.60	6.51	6.83								
Oklahoma	9.11	9.19	8.79	7.99	6.68	5.85	5.56	5.68								
Oregon	7.34	7.54	7.31	7.08	6.51	6.18	6.00	5.91								
Pennsylvania	10.93	11.68	11.83	10.14	8.87	8.40	8.12	8.04								
Rhode Island	12.10	12.53	12.30	10.90	9.70	9.67	9.39	9.18								
South Carolina	9.88	9.97	9.47	8.72	7.87	8.14	8.99	8.46								
South Dakota	9.10	8.07	8.39	7.83	5.92	4.95	4.83	5.09								
ennessee	8.74	8.93	8.85	8.05	6.44	6.34	6.67	6.98								
exas	8.55	8.78	8.26	7.72	6.33	5.58	5.48	5.96								
Jtah	5.59	5.98	5.65	5.71	5.84	4.19	5.17	4.92								
/ermont	8.41	8.78	8.51	7.35	6.52	6.23	6.08	6.04								
/irginia	12.04	12.20	11.99	10.50	8.88	7.97	7.42	7.92								
Vashington	5.86	5.88	5.90	5.84	5.71	5.70	5.50	5.42								
Vest Virginia	8.96	9.68	10.50	8.53	7.31	6.96	6.85	6.72								
Visconsin	6.82	6.89	6.48	6.58	5.06	6.22	5.80	6.51								
Vyoming	6.29	6.59	5.91	5.32	3.27	4.80	4.07	3.96								

R = Revised Data.
NA = Not Available.
Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia.
See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.
Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1996-1998

(Dollars per Thousand Cubic Feet)

	YTD	YTD	YTD			1998		
State	1998	1997	1996	September	August	July	June	Мау
labama	6.51	7.06	6.11	6.92	6.96	7.25	7.24	6.18
.laska	2.40	2.40	2.31	3.22	2.15	2.08	2.05	2.24
rizona	5.83	5.20	5.01	5.78	6.30	6.25	6.19	6.14
rkansas	NA	5.19	4.50	5.02	4.99	5.29	NA	5.31
alifornia	6.34	6.26	5.98	5.83	5.88	5.50	5.91	5.68
olorado	NA	3.92	3.76	4.44	^R 4.16	NA	4.44	4.21
onnecticut	6.86	7.21	7.38	5.44	5.53	4.66	5.88	7.03
elaware	7.06	6.66	5.71	8.72	8.40	8.14	7.81	7.33
istrict of Columbia	7.32	7.95	7.19	7.35	7.14	6.98	6.97	6.99
orida	6.64	6.73	6.46	6.27	6.22	6.55	6.70	6.83
eorgia	6.59	6.74	5.83	9.08	8.96	9.40	7.59	7.99
awaii	13.26	14.98	14.13	15.00	10.50	12.36	12.60	13.20
laho	4.58	4.48	4.58	4.94	4.88	4.90	4.83	4.77
linois	4.96	5.47	4.85	5.13	5.99	6.29	5.72	6.81
diana	NA	5.62	4.59	NA	NA	NA	NA	6.35
owa	4.67	5.08	4.35	6.38	6.27	7.53	4.17	5.48
ansas	5.07	5.38	4.55	5.57	4.36	5.45	5.65	5.75
entucky	5.52	5.75	4.85	5.69	5.69	6.14	5.57	5.33
	NA	6.12	5.95	5.82		5.85	NA	
ouisiana aine	7.29	7.77	6.97	6.89	5.68 6.89	6.81	6.70	6.10 7.20
	NA	0.54		NA	- 40		0.05	= 00
aryland	NA NA	6.54	6.06	NA NA	7.49	8.19	6.65	7.82
assachusetts		7.31	6.64		6.45	6.22	6.55	6.86
lichigan	4.87	4.99	4.66	5.35	5.70	5.88	5.38	5.21
linnesota	4.45	4.80	4.46	3.93	4.44	4.66	4.46	4.63
lississippi	NA	5.17	5.24	NA	NA	^R 4.25	^R 4.23	R4.67
lissouri	5.66	5.78	5.26	5.71	6.04	5.93	5.65	5.52
Iontana	NA	4.77	4.64	6.23	5.86	6.06	5.47	NA
ebraska	4.69	4.74	4.33	3.52	3.73	3.91	3.91	4.25
evada	5.87	4.99	4.90	6.92	6.90	6.08	5.91	5.75
ew Hampshire	NA NA	7.69	6.49	6.40	NA NA	6.59	NA NA	5.98
ow loreov	NA	6.15	6.25	NA	2.87	3.96	3.74	3.84
ew Jersey				4.49				
ew Mexico	4.25 NA	4.25	3.36 NA	4.49 NA	4.71	4.88	6.66	5.15 NA
ew York		6.52			R4.68	R5.67	^R 5.01	
orth Carolina	6.55	7.10	6.02	6.26	6.28	6.45	6.16	6.18
orth Dakota	4.34	4.09	4.07	4.73	7.28	4.72	4.86	4.54
hio	NA	6.34	5.13	7.19	7.81	NA	6.30	5.76
klahoma	5.31	5.38	4.62	5.39	5.34	5.39	5.24	4.97
regon	NA	4.61	4.87	5.55	5.89	5.75	5.52	5.51
ennsylvania	NA	7.52	6.32	7.92	NA	8.03	8.25	8.23
hode Island	NA	8.27	7.38	9.14	9.35	8.98	8.88	R8.37
outh Carolina	6.46	6.59	6.18	5.89	5.91	5.94	6.00	5.98
outh Dakota	4.50	4.53	4.18	5.65	5.60	6.23	4.33	5.07
ennessee	NA	6.03	5.77	5.79	6.24	5.98	5.95	5.83
exas	4.57	4.85	4.09	4.33	4.19	4.30	4.12	4.44
tah	4.29	3.69	3.28	4.43	4.81	4.37	3.93	3.93
ermont	5.18	5.23	5.27	4.63	5.17	4.91	5.30	5.98
irginia	6.03	6.46	5.77	6.06	6.21	5.76	6.14	5.44
ashington	NA	4.69	4.81	NA	NA	NA	NA	NA
est Virginia	NA	6.37	6.06	6.22	6.55	6.86	NA	7.34
/isconsin	4.91	5.25	4.70	4.21	^R 4.37	4.82	4.44	4.16
/yoming	NA	3.51	3.99	4.69	^R 5.84	NA	NA	4.77

Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1996-1998

		1	998			19	97	
State	April	March	February	January	Total	December	November	October
Alabama	6.00	6.27	6.47	6.65	6.98	6.56	6.77	7.40
Alaska	2.31	2.39	2.45	2.49	2.44	2.55	2.53	2.52
Arizona	5.79	5.50	5.59	5.65	5.31	5.55	5.82	5.82
Arkansas	5.23	5.04	5.19	5.14	5.23	5.13	5.47	5.77
California	6.65	7.06	6.75	6.69	6.41	6.99	7.04	6.65
Colorado	4.05	4.04	4.07	4.18	4.06	4.43	4.39	4.72
Connecticut	6.86	7.42	7.28	7.73	7.23	7.48	7.59	6.36
Delaware	6.85	6.75	6.72	6.70	6.70	6.60	6.88	7.46
District of Columbia	7.09	7.46	7.34	7.65	7.37	3.15	8.77	8.07
Florida	6.71	6.69	6.72	6.83	6.85	7.22	7.32	7.04
Seorgia	5.53	5.51	5.86	6.16	6.43	5.73	5.53	6.22
ławaii	13.32	13.66	14.41	14.35	15.77	13.87	59.38	14.59
daho	4.76	4.46	4.40	4.41	4.49	4.35	4.68	4.75
llinois	5.21	4.70	4.25	4.76	5.43	5.21	5.26	5.79
ndiana	NA NA	5.44	5.97	5.52	5.44	5.11	4.96	4.97
	F 40	2.72	4.00	4.74	E 40	F 16	F 46	F 04
owa	5.19	3.72	4.08	4.71	5.18	5.16	5.46	5.91
Kansas	6.08	3.85	5.43	5.44	5.38	5.14	5.72	5.63
Centucky	5.67	5.44	5.63	5.32	5.79	5.92	6.03	5.42
ouisiana	5.49	4.94	5.24	5.73	6.22	5.91	7.00	7.14
Maine	7.41	7.41	7.41	7.41	7.70	7.79	7.62	6.84
Maryland	6.82	6.15	6.18	6.14	6.52	5.61	7.12	7.19
lassachusetts	7.65	7.46	7.73	7.39	7.34	8.03	7.74	5.63
lichigan	4.92	4.58	4.76	4.77	5.00	4.87	5.03	5.49
/linnesota	4.53	4.41	4.42	4.50	4.80	4.34	5.20	5.11
Mississippi	R4.90	^R 4.69	4.35	^R 5.11	5.26	5.23	5.75	5.77
Missouri	5.37	5.27	5.63	6.08	5.88	6.23	6.08	6.16
Montana	5.05	4.91	4.97	4.85	4.83	5.39	3.92	5.54
Nebraska	4.42	6.13	4.44	4.66	4.88	5.35	5.41	5.27
levada	5.76	5.69	5.76	5.63	5.08	5.32	5.42	5.43
lew Hampshire	6.06	7.64	7.57	7.60	7.63	7.77	7.81	6.14
	4.47	2.02	4.40	4.05	F 00	4.07	5.04	4.00
lew Jersey	4.17	3.83	4.13	4.85	5.88	4.97	5.34	4.92
New Mexico	4.42	3.91 NA	4.35 NA	3.66 NA	4.01	3.25	3.52	4.14
lew York	6.20				6.49	6.80	6.58	5.62
Iorth Carolina	6.09	6.45	6.72	7.05	7.00	6.96	6.70	6.29
lorth Dakota	4.16	4.17	4.13	4.03	4.35	4.94	5.14	5.15
Phio	5.79	5.62	5.43	5.96	6.23	5.86	5.97	6.14
Oklahoma	4.57	5.27	5.56	5.53	5.34	5.23	5.17	5.38
Dregon	NA	NA	5.17	4.92	4.63	4.66	4.73	4.65
Pennsylvania	NA	7.33	7.36	7.14	7.35	6.89	6.83	7.25
Rhode Island	NA	7.88	7.78	7.75	8.21	7.98	8.02	8.00
outh Carolina	6.40	6.55	6.91	6.92	6.74	7.31	7.22	6.52
South Dakota	4.69	4.37	4.10	4.12	4.71	5.06	5.22	5.50
ennessee	5.68	5.55	6.37	NA NA	6.11	6.36	6.27	6.33
exas	4.75	4.32	5.37	4.66	4.91	4.99	5.27	4.96
Itah	3.76	4.36	4.35	4.54	3.92	4.39	4.65	3.78
ermont	5.14	5.10	5.23	5.21	5.18	5.15	4.99	4.91
/irginia	5.63	5.82	6.33	6.41	6.45	6.37	6.42	6.55
	0.03 NA	0.02 NA	NA	NA				
Vashington					4.73	4.78	4.81	4.87
Vest Virginia	6.60	6.32	6.31	6.28	6.34	6.18	6.24	6.76
Visconsin	4.75	5.24	4.96	5.12 NA	5.35	5.46	5.98	4.83
Vyoming	^R 4.62	4.55	4.56	11/2	3.93	5.52	4.62	5.08
Total	^R 5.58	5.38	5.56	5.59	5.79	5.70	5.85	5.73

Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1996-1998

				19	97			
State	September	August	July	June	Мау	April	March	Februar
labama	7.53	7.44	7.54	7.16	6.79	7.05	7.20	6.86
Alaska	2.28	2.09	2.24	2.15	2.23	2.37	2.53	2.52
rizona	5.81	5.33	5.21	5.20	5.18	5.08	5.26	5.10
irkansas	5.56	5.19	5.33	5.39	5.15	4.91	4.87	5.08
California	5.84	4.96	5.86	6.27	5.29	6.05	6.66	6.93
Colorado	4.01	4.70	4.45	4.23	4.08	3.98	3.97	3.83
Connecticut	6.48	5.14	5.54	5.67	6.69	7.12	7.54	8.31
elaware	7.15	8.54	7.81	7.30	6.74	6.53	6.39	6.46
istrict of Columbia	8.10	7.19	6.91	7.02	6.86	10.04	7.60	7.96
lorida	6.85	6.54	6.89	6.84	6.80	6.66	6.87	6.76
Seorgia	6.49	7.02	7.63	7.71	6.33	5.60	7.57	6.69
awaii	14.46	14.93	14.91	15.21	15.09	15.18	15.55	14.91
daho	4.75	4.85	4.78	4.80	4.68	4.64	4.37	4.30
linois	6.22	6.08	5.66	5.53	4.91	4.62	4.95	5.66
ndiana	6.10	6.12	6.55	6.33	6.20	6.02	5.41	5.47
iuiuiia	0.10	0.12	0.00	0.33	0.20	0.02	J. 4 I	5.47
wa	7.37	6.39	5.64	5.99	4.83	4.30	4.76	5.27
ansas	5.42	4.65	4.71	4.65	4.98	4.89	5.16	5.91
entucky	5.90	5.95	6.20	6.00	5.53	5.85	5.72	5.80
ouisiana	6.03	5.66	5.31	6.00	5.84	5.01	5.84	6.59
laine	7.61	7.16	7.12	6.94	6.67	8.28	8.10	8.12
laryland	6.90	6.32	6.09	6.53	6.06	6.11	5.92	7.07
lassachusetts	5.45	5.65	5.34	5.04	5.44	7.94	8.14	8.28
lichigan	6.07	6.06	5.90	5.53	4.90	4.70	4.79	4.88
linnesota	5.20	4.59	4.63	4.64	4.02	3.86	4.11	5.15
lississippi	4.93	4.90	4.54	4.93	5.23	5.08	4.75	5.33
lissouri	5.74	5.22	5.13	4.89	4.43	4.60	5.12	6.52
Iontana	4.52	5.89	5.78	5.54	4.95	4.65	4.70	4.58
lebraska	4.34	3.77	3.57	5.90	5.01	3.92	4.24	5.25
evada	5.18	5.18	5.07	5.03	5.08	5.14	4.91	4.82
lew Hampshire	6.25	6.45	6.47	6.19	5.85	6.50	8.65	8.79
lew Jersey	4.30	4.54	4.35	4.41	5.81	5.09	7.04	7.14
ew Mexico	4.51	4.67	4.73	6.54	3.79	4.13	3.20	3.96
ew York	5.09	4.86	4.40	5.32	5.95	6.15	6.78	7.61
lorth Carolina	6.46	6.44	6.44	5.99	6.10	6.50	7.85	7.67
lorth Dakota	5.11	4.58	5.11	4.76	4.38	3.69	3.65	4.07
hio	6.45	6.73	6.67	6.91	6.00	6.10	5.95	6.65
klahoma	4.87	4.80	4.79	5.00	4.83	4.67	5.11	5.58
regon	4.80	4.87	4.75	4.78	4.61	4.60	4.56	4.54
ennsylvania	7.68	4.07 8.04	8.05	4.76 8.12	7.98	7.69	7.36	7.54
hode Island	8.77	9.12	8.96	8.77	8.07	8.46	8.17	8.20
	2.40	6.45		6.00	6.00	7.05	7.70	
outh Carolina	3.49	6.45	6.31	6.33	6.33	7.05	7.70	7.35
outh Dakota	6.51	5.22	5.44	6.09	4.77	4.04	3.96	4.28
ennessee	6.05	5.99	6.09	6.00	5.38	5.07	5.85	6.29
exas	4.72	4.54	4.41	4.68	4.48	4.18	4.31	5.15
tah	3.99	4.02	3.82	3.60	3.37	3.09	3.81	3.75
ermont	5.01	5.43	5.42	5.41	5.58	5.10	5.15	5.21
irginia	6.58	6.56	6.66	6.08	6.29	6.27	5.91	6.59
/ashington	4.90	5.29	4.93	4.63	4.80	4.19	4.68	4.69
Vest Virginia	7.54	8.13	8.42	7.68	6.72	6.34	6.14	6.05
/isconsin	4.80	4.66	4.26	4.69	3.79	5.02	4.98	5.54
Vyoming	4.55	4.43	4.11	3.93	2.65	3.59	3.46	3.53
Total	5 E 7	5.42	E 25	5.64	5.20	E 46	F 70	6 40
Total	5.57	5.43	5.35	5.64	5.39	5.46	5.72	6.13

R = Revised Data.

NA = Not Available.

Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Average prices for gas delivered to commercial consumers reflect onsystem sales prices only. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of both total commercial and total industrial deliveries. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1996-1998

(Dollars per Thousand Cubic Feet)

	YTD	YTD	YTD			1998		
State	1998	1997	1996	September	August	July	June	May
labama	3.23	3.58	3.58	2.95	3.06	3.15	3.11	3.16
laska	NA	1.54	1.44	NA	NA	1.22	1.40	1.43
rizona	3.42	3.67	3.80	3.22	3.20	3.36	3.51	3.44
rkansas	3.44	3.58	3.13	3.04	3.09	3.47	3.28	3.28
alifornia	3.72	4.00	3.67	3.46	3.28	3.48	3.38	2.88
olorado	NA	3.43	0.52	1.90	NA	NA	NA	2.48
onnecticut	4.35	4.70	4.75	3.46	3.63	3.61	3.69	4.13
elaware	4.27	4.28	4.20	4.39	5.12	4.32	4.35	4.32
istrict of Columbia		_	_	_	_	_	_	_
lorida	4.32	4.30	4.19	4.05	4.02	4.37	4.20	4.46
eorgia	5.13	4.59	4.43	4.51	5.06	3.85	4.90	5.30
awaii	_	_	_	_	_	_	_	_
laho a	3.09	2.77	2.87	2.94	3.32	2.97	3.10	3.09
linois	4.07	3.88	4.12	3.71	4.38	3.10	4.49	4.18
ndiana	NA	4.49	3.56	NA	NA	NA	4.53	4.51
owa	1.80	3.88	3.53	3.31	3.65	4.14	3.18	3.39
ansas	2.88	3.18	2.93	2.06	2.45	2.44	3.11	3.31
entucky	3.87	4.05	3.79	3.66	3.71	3.61	3.48	3.21
ouisiana	2.37	2.77	2.73	1.85	1.98	2.30	2.43	2.62
laine	4.99	5.42	5.05	3.92	3.80	4.17	4.10	4.70
laryland	NA	3.24	5.42	NA	4.69	6.15	NA	5.02
lassachusetts	NA	5.74	5.31	NA	4.36	4.83	4.89	4.66
lichigan	4.02	4.00	3.84	4.67	5.21	4.77	4.32	4.01
linnesota	2.80	3.14	2.88	2.18	2.51	2.84	2.09	3.03
lississippi	NA	3.43	3.35	3.24	NA	NA	NA	NA
lissouri	4.48	4.62	4.23	4.13	4.27	3.73	4.27	4.25
Iontana	5.04	4.77	4.86	11.14	7.57	6.88	3.72	5.89
ebraska	3.21	3.70	3.13	2.56	2.72	3.20	3.34	3.34
levada	5.10	7.31	4.95	4.35	4.46	5.86	5.81	5.94
lew Hampshire	NA NA	4.68	4.18	3.67	NA NA	3.58	3.38	3.90
ew Jersey	NA	3.71	3.81	NA	2.88	3.17	3.39	3.43
lew Mexico	3.32	3.10	3.12	2.99	3.19	3.13	3.45	3.77
ew York	NA	4.97	5.09	NA	NA	NA NA	R3.92	NA NA
orth Carolina	3.97	4.67	4.21	3.55	3.62	3.60	3.57	3.68
orth Dakota	2.92	2.93	3.18	2.11	2.53	2.85	2.60	3.15
d- ! -	NA	4.00	4.40	5.70	7.40	NA	5.05	4.00
hio		4.99	4.16	5.78	7.46		5.05	4.98
klahoma	3.76 NA	4.11	3.16	3.40	3.44	3.41 NA	3.43	3.13
regon		3.00	3.20	3.57	3.80		3.77	3.75
ennsylvaniahode Island	4.32 NA	4.66 2.12	4.16 4.34	4.04 3.08	3.88 2.98	3.94 3.59	4.09 3.58	4.05 NA
auth Carolina	2.00							0.04
outh Carolina	3.26	3.59	3.70	2.93	2.47	3.37	3.21	3.31
outh Dakota	3.33 NA	3.96	2.97	3.38	3.17	3.21	3.54	3.44
ennessee		4.02	3.89	3.34	3.38	4.37	3.50	3.54
exas	2.36	2.66	2.45	1.87	2.15	2.53	2.24	2.44
tah	3.05	2.42	2.08	3.08	3.36	3.20	2.78	2.90
ermont	2.88	3.07	3.51	2.74	2.77	2.78	2.78	2.87
irginia	3.86	4.66	4.18	3.16	3.33 NA	3.61	3.44	3.01
/ashington	NA NA	3.17	2.53	NA NA		NA NA	NA NA	NA NA
Vest Virginia	NA	2.91	2.71	NA	NA	NA	NA	NA
/isconsin	3.89 NA	3.96	3.31	3.02	3.49 NA	3.76	3.44	3.69
Vyoming	NA	3.46	3.12	3.80	NA	NA	3.82	4.19
Total	3.17	3.47	3.31	2.64	2.73	2.99	2.95	3.10

Table 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1996-1998

		1	998					
State	April	March	February	January	Total	December	November	Octobe
labama	3.44	3.03	3.50	3.47	3.65	3.79	3.81	3.85
laska	1.42	1.45	1.52	1.56	1.54	1.56	1.55	1.54
rizona	3.45	3.33	3.76	3.53	3.60	3.40	3.23	3.71
rkansas	3.39	3.78	3.62	3.77	3.71	4.01	4.31	3.90
alifornia	3.97	3.31	5.34	4.55	4.18	4.51	4.58	4.36
olorado	2.26	2.62	2.58	2.69	3.66	3.79	4.91	4.07
onnecticut	4.55	4.74	5.13	5.12	4.73	5.10	4.94	4.33
elaware	4.63	3.79	4.08	4.22	4.40	4.72	4.87	4.63
strict of Columbia	_	_	_	_		_	_	_
orida	4.58	4.40	4.29	4.59	4.41	4.70	4.96	4.78
eorgia	5.15	5.18	5.37	5.63	4.56	4.22	4.63	4.52
awaii	_	_	_	_	10.79	_	_	_
aho ^a	3.10	3.25	3.02	3.06	2.76	2.77	2.74	2.72
nois	4.02	4.08	4.12	4.22	3.97	4.17	4.80	3.77
diana	NA NA	4.56	4.29	4.68	4.33	4.73	3.67	3.59
wo	0.70	0.64	2.42	2.42	1 4 4	A 55	4.50	4 42
wa	0.73	0.64	2.42	3.43	4.11	4.55	4.53	4.41
ansas	3.56	3.61	3.67	3.91	3.32	3.61	3.81	3.96
entucky	3.85	3.79	4.51	4.59	4.19	4.85	4.91	3.97
ouisiana	2.19	2.89	2.22	2.90	2.87	2.91	3.42	3.27
aine	6.02	6.02	6.02	6.02	5.55	7.19	5.88	4.68
aryland	5.10	4.68	4.82	5.42	3.25	3.76	3.64	2.99
assachusetts	6.64	6.77	6.70	6.79	5.78	6.72	6.34	4.34
ichigan	3.81	3.61	4.11	3.90	4.02	4.02	4.07	4.33
innesota	3.06	3.08	3.00	3.25	3.28	3.24	3.87	3.83
ississippi	NA NA	NA NA	3.22	NA NA	3.55	3.60	4.12	3.93
issouri	4.30	4.27	4.69	5.30	4.78	5.48	4.23	4.51
ontana	5.22	5.02	4.85	4.82	4.79	4.85	4.80	4.91
ebraska	3.35	3.34	3.27	3.30	3.85	4.08	4.44	4.28
evada	5.84	6.00	6.06	5.90	7.77	7.98	9.55	11.41
ew Hampshire	3.77	5.47	5.84	7.08	4.90	7.36	6.48	4.50
ew Jersey	3.42	3.24	3.42	3.71	3.78	3.99	4.24	3.79
ew Mexico	4.00	4.09	^R 5.69	^R 2.18	2.99	2.14	2.81	3.57
ew York	4.49	15.18	NA	NA	5.05	5.56	5.29	4.69
orth Carolina	3.63	4.19	4.41	4.95	4.66	5.03	4.98	4.07
orth Dakota	3.10	3.22	3.01	3.22	3.05	3.24	3.64	3.84
hio	5.21	5.67	5.06	5.62	4.93	4.84	4.79	4.31
klahoma	3.32	4.12	4.18	4.10	4.18	4.39	4.79	4.22
	NA	A.IZ NA						
regon			3.73	3.67	3.03	3.32	3.10	2.86
ennsylvaniahode Island	4.40 3.86	4.57 4.06	4.55 4.25	4.80 4.59	4.61 4.33	4.62 3.77	4.32 2.92	4.36 2.49
outh Carolina	3.42	3.53	3.38	3.67	3.72	4.00	4.31	4.02
outh Dakota	3.37	3.38	3.25	3.30	4.02	3.72	4.37	4.65
ennessee	3.64	3.59	3.98	NA	4.18	4.81	4.72	4.47
exas	2.49	2.49	2.44	2.66	2.82	2.76	3.54	3.33
ah	2.95	3.05	3.19	3.06	2.55	3.02	2.90	2.73
ermont	2.86	2.94	3.01	3.06	3.07	3.11	3.12	2.97
rginia	3.45	4.08	4.99	4.81	4.68	5.20	4.73	3.92
ashington	NA	NA	NA	NA	3.16	3.08	3.38	2.86
	2.97	2.79	2.75	2.81	2.91	2.87	2.88	2.97
est Virginia								
/isconsin/yoming	4.20 4.12	4.17 NA	4.48 NA	3.79 3.29	4.13 3.49	4.53 3.65	5.05 3.66	4.23 3.42
Total	3.22	3.41	3.52	3.68	3.59	3.79	4.07	3.69

Table 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1996-1998

_				19	97			
State	September	August	July	June	Мау	April	March	Februar
Nabama	3.38	3.38	3.24	3.37	3.35	3.14	3.34	4.11
laska	1.57	1.56	1.56	1.48	1.44	1.53	1.55	1.57
rizona	3.29	3.13	3.19	3.94	3.94	4.35	4.10	3.77
rkansas	3.61	3.40	3.35	3.40	3.20	3.22	3.34	3.81
California	3.54	3.43	3.81	4.05	2.57	3.51	4.32	5.27
Colorado	3.31	3.15	3.02	2.99	3.18	2.99	3.16	4.30
Connecticut	4.06	3.85	3.92	4.01	4.21	4.44	4.89	5.74
Delaware	4.13	4.14	4.11	4.06	3.69	3.65	4.43	5.12
District of Columbia	4 .15	-	4 .11	4 .00	5.09	3.03	4.40	3.12
lorida	4.56	 4.41	_ 4.11	 4.19	4.13	4.20	4.20	4.45
eorgialawaii	5.57	4.04	4.16 —	5.30	4.03	3.79	4.38	4.86
laho a	2.69	2.68	3.28	2.52	2.73	2.75	2.75	2.76
linois	3.23	3.78	3.50	2.67	2.53	3.46	4.05	4.95
idiana	4.29	4.16	4.12	4.62	4.74	4.92	4.65	4.44
wa	3.89	3.51	4.10	3.36	3.95	3.13	4.03	4.72
ansas	3.14	2.84	2.75	2.77	3.18	2.49	2.62	3.66
entucky	3.81	3.75	3.78	3.67	3.61	3.70	3.85	4.53
ouisiana	2.78	2.43	2.69	2.65	2.34	2.27	2.04	3.31
laine	4.65	4.43	4.40	4.45	4.10	5.77	7.08	7.10
laryland	3.33	3.07	3.68	3.20	3.22	13.80	3.88	1.12
lassachusetts	4.03	3.85	4.00	3.57		6.08	6.81	8.00
					5.01			
lichigan	3.99	4.35	4.41	4.23	4.07	3.95	3.98	3.86
linnesotalississippi	3.10 3.43	2.77 3.23	2.78 3.15	2.75 3.27	2.72 3.12	2.60 3.04	2.74 2.98	3.74 3.87
поотоотры	0.40	0.20	5.15	0.21	0.12	3.04	2.50	0.07
lissouri	4.03	4.03	3.97	3.95	3.56	3.84	4.58	6.06
Iontana	4.90	4.90	4.88	4.80	4.77	4.76	4.76	4.72
ebraska	3.59	3.48	3.19	3.11	2.86	2.74	3.29	4.26
levada	9.10	7.31	6.98	7.39	7.66	5.72	4.60	8.22
lew Hampshire	3.61	3.43	3.39	3.59	3.56	3.99	6.05	7.90
ew Jersey	3.43	2.11	3.06	3.27	3.30	2.88	4.51	5.01
ew Mexico	3.10	2.91	2.86	3.87	2.93	7.28	3.64	4.09
ew York	3.47	3.69	3.82	3.93	4.27	4.66	5.42	6.12
orth Carolina	4.24	4.16	3.95	3.59	3.96	4.08	4.73	5.33
lorth Dakota	3.16	3.46	2.97	2.85	2.29	2.24	1.51	4.67
hio	4.80	4.65	3.82	5.79	3.89	5.15	4.75	5.80
klahoma	3.59	3.46	3.44	3.41	2.83	3.17	4.02	4.67
regon	2.78	2.69	2.89	2.88	2.95	3.03	3.12	3.22
ennsylvania	4.13	4.04	4.47	4.58	4.36	4.61	4.78	5.11
hode Island	3.08	2.19	2.13	1.64	1.94	1.09	1.62	3.44
outh Carolina	3.27	3.29	3.44	3.36	3.30	3.25	3.47	4.27
outh Dakota	4.17	3.97	4.50	4.09	3.55	3.12	3.00	4.01
ennessee	3.95		3.18					
ennesseeexas		3.51		3.77	3.50	3.53	4.22	4.88
07.00	2.69	2.32	2.42	2.49	2.33	2.05	2.10	3.21
tah	2.54	2.73	2.63	2.21	2.21	2.25	2.46	2.46
ermont	3.00	2.96	2.97	3.01	3.05	2.98	3.10	3.14
irginia	4.32	4.32	4.53	4.18	4.47	2.15	4.91	6.99
/ashington	2.69	2.71	2.87	2.90	3.03	2.83	2.97	3.69
Vest Virginia	2.93	2.82	2.91	2.72	2.81	2.49	2.82	3.03
/isconsin	3.62	3.34	3.32	3.39	3.00	3.92	3.54	4.37
/yoming	3.42	3.44	3.48	3.45	3.34	3.51	3.51	3.52
Total	2.05	2.00	2.06	2 10	2.06	2.02	2.25	4.00
Total	3.25	2.90	3.06	3.10	2.96	3.02	3.35	4.20

R = Revised Data.
NA = Not Available.

Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Average prices for gas delivered to industrial consumers reflect onsystem sales prices only. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of both total commercial and total industrial deliveries. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.
Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 24. Average Price of Natural Gas Delivered to Electric Utility^a Consumers, by State, 1996-1998

(Dollars per Thousand Cubic Feet)

-	YTD	YTD	YTD			1998		
State	1998	1997	1996	August	July	June	May	April
labama	2.56	2.59	2.84	2.50	2.63	2.49	2.62	2.69
laska	1.84	1.69	1.35	1.76	1.80	1.87	1.84	1.84
rizona	2.49	2.84	2.95	2.28	2.41	2.79	3.20	2.82
	2.31	2.47	2.54	2.05	2.49	2.33	2.33	
rkansas								2.56
California	2.84	2.97	2.59	2.83	2.92	2.70	2.94	2.71
Colorado	2.85	3.48	1.88	3.31	2.77	2.83	2.56	2.53
Connecticut	2.47	2.42	2.81	2.34	2.46	2.38	2.56	2.70
elaware	2.90	3.04	3.44	2.66	3.47	3.27	1.34	1.41
istrict of Columbia	_	_	_		_			
lorida	2.35	2.37	3.16	2.18	2.27	2.31	2.31	2.68
Georgia	2.99	2.60	3.01	2.82	3.18	2.91	3.72	1.94
awaii	_							_
laho	_	_					_	_
linois	2.28	2.35	2.64	1.95	2.27	2.37	2.37	2.55
diana	2.86	3.03	3.33	2.58	2.80	2.95	2.98	3.37
owa	3.00	3.14	3.21	2.80	3.01	2.86	3.16	3.14
ansas	2.18	2.18	2.24	1.99	2.28	2.14	2.20	2.40
entucky	3.28	3.14	3.45	2.43	2.86	3.68	3.59	5.25
ouisiana	2.46	2.63	2.99	2.17	2.59	2.40	2.52	2.66
laine	_	_	_	_	_	_	_	
laryland	2.81	2.80	3.12	2.49	2.84	2.93	2.96	3.33
,								
lassachusetts	2.90	2.91	3.30	2.35	2.62	2.24	2.86	3.66
lichigan	1.13	0.68	0.81	1.38	1.34	1.29	1.20	1.35
linnesota	2.52	2.36	2.22	2.41	2.48	2.42	2.74	2.76
lississippi	2.38	2.58	3.07	2.16	2.47	2.36	2.41	2.56
lissouri	2.25	2.51	2.55	1.95	2.39	2.41	2.31	2.56
Montana	5.00	3.42	6.57	4.99	2.47	2.59	5.34	1.40
lebraska	2.48	2.30	1.96	2.49	2.62	2.37	2.40	1.98
levada	2.40	2.04	2.03	2.42	2.34	2.73	2.44	2.31
lew Hampshire	_	2.69	_	_	_	-	_	_
lew Jersey	2.76	2.88	3.06	2.46	2.92	2.73	2.77	3.05
lew Mexico	2.28	2.52	2.12	2.03	2.32	2.20	2.33	2.41
lew York	2.63	2.71	3.05	2.29	2.63	2.51	2.64	2.87
lorth Carolina	2.76	3.05	3.12	2.55	2.92	2.78	2.89	3.37
lorth Dakota	_	3.81	3.06	_		_	_	_
hio	3.31	3.48	3.19	3.93	2.98	2.79	3.06	4.01
klahoma	2.55	2.76	2.94	2.07	2.52	2.41	2.52	2.88
	1.37	1.51	1.24		1.46	1.31		1.36
regon				1.56			1.50	
ennsylvaniahode Island	3.12 3.38	2.74 3.16	3.13 2.29	2.63 3.40	3.18 3.38	2.32 3.40	5.37 3.43	5.94 3.45
	0.00	0.10	2.20	0.40	0.00	0.40	0.70	0.40
outh Carolina	3.65	4.12	4.12	3.53	3.58	3.92	3.41	3.44
outh Dakota	_	_	2.36	_	_	_	_	_
ennessee	_	_	1.20		_	_	_	_
exas	2.37	2.54	2.48	2.11	2.46	2.34	2.38	2.52
tah	2.08	1.86	3.07	2.04	2.15	1.94	_	_
	0.00	0.00	0.40	0.07	0.00	0.04	0.00	
ermont	2.93	3.02	3.16	2.67	3.09	2.81	3.03	3.08
irginia	3.02	2.77	2.98	2.60	3.02	2.93	2.99	4.46
/ashington	2.79	NA	5.15		_	_	_	5.59
/est Virginia	4.41	4.02	3.53	3.85	6.31	2.62	3.58	_
/isconsin	2.75	2.96	2.89	2.49	2.80	2.64	2.95	3.13
lyoming	2.75 8.67	13.55	11.28	67.70	8.23	2.64 7.66	2.95 11.70	4.77
,								
Гotal	2.44	2.59	2.67	2.21	2.50	2.40	2.46	2.59

Table 24. Average Price of Natural Gas Delivered to Electric Utility^a Consumers, by State, 1996-1998

.		1998				1997				
State	March	February	January	Total	December	November	October	Septembe		
Nabama	2.55	2.44	2.86	2.86	2.90	3.70	3.75	2.88		
Alaska	1.85	1.88	1.85	1.74	1.84	1.84	1.85	1.88		
Arizona	3.07	2.56	2.84	2.99	2.86	4.00	3.11	3.37		
Arkansas	2.36	2.16	2.25	2.69	2.24	3.12	3.12	2.89		
California	2.85	2.79	2.94	3.08	2.96	3.64	3.40	3.14		
Colorado	2.61	2.65	3.01	3.16	2.93	3.90	2.37	2.42		
Connecticut	2.79	2.63	2.74	2.47	2.74	3.38	2.76	2.37		
Delaware	4.15	3.21	5.34	3.15	4.28	2.58	5.69	3.40		
District of Columbia	_	_	_	_	_	_	_	_		
Florida	2.64	2.49	2.25	2.51	2.52	3.29	3.21	3.03		
Georgia	1.72	2.88	2.35	2.72	4.97	3.33	3.94	3.07		
Hawaii	-	_	_		-	_	-	-		
daho	_	_	_	_	_	-	_	_		
Ilinois	2.34	2.28	2.25	2.55	2.48	3.31	3.13	2.82		
ndiana	3.25	2.64	3.84	3.23	3.67	4.03	5.25	3.67		
lowa	3.35	3.00	3.36	3.41	2.99	4.16	3.81	3.28		
Kansas	2.36	1.97	3.35	2.53	3.33	3.02	3.06	2.70		
Kentucky	4.04	3.58	3.46	3.45	3.47	4.24	4.00	3.25		
_ouisiana	2.51	2.47	2.61	2.79	2.86	3.61	3.40	3.03		
Maine	_	_	_	_	_	_	-	-		
Maryland	3.18	3.32	3.75	2.97	3.61	4.10	3.91	3.42		
Massachusetts	3.64	2.95	3.16	3.11	3.57	4.08	4.10	3.21		
	0.75	0.84	0.51	0.79		1.08	1.58	0.73		
Michigan					0.47					
Minnesota	2.83	2.62	2.63	2.44	2.99	3.72	3.67	3.56		
Mississippi	2.46	2.46	2.48	2.72	2.80	3.51	3.35	3.02		
Missouri	2.52	2.82	2.63	2.81 NA	2.77	3.52	3.35	2.94		
Montana	12.33	8.49	4.61		4.18	6.84	2.98	64.31		
Nebraska	2.72	4.47	2.72	2.86	4.94	4.29	3.21	2.98		
Nevada	2.02	2.37	2.41	2.18	2.16	2.80	2.64	2.39		
New Hampshire	_	_	_	2.71	_	_	_	2.85		
New Jersey	2.88	2.83	2.98	3.06	3.20	4.19	4.23	3.42		
New Mexico	2.39	2.30	2.43	2.64	2.55	3.02	3.05	2.82		
New York	2.96	2.95	3.00	2.88	3.38	3.83	3.37	2.89		
North Carolina	4.03	_	3.02	3.22	3.60	4.95	3.68	3.38		
North Dakota	-	_	_	3.43	_	-	_	-		
Ohio	4.14	3.16	3.32	3.72	4.13	4.12	4.00	4.35		
Oklahoma	2.62	2.72	4.47	2.97	2.89	4.05	3.46	3.20		
	1.23	1.03	1.14	1.49	1.48	1.44	1.45	1.49		
Oregon										
Pennsylvania Rhode Island	2.69 3.19	2.64 3.24	2.79 3.48	3.02 3.35	3.16 3.78	3.69 4.05	3.65 4.02	2.99 3.32		
	2.50	2.50	4.05	4.07	4.40	4.00	4.40	4.5.4		
South Carolina	3.58	3.53	4.05	4.07	4.46	4.00	4.10	4.54		
South Dakota	_	_	_	_	_	-	_	_		
Tennessee	_		_			_				
Texas	2.43	2.41	2.49	2.69	2.74	3.33	3.15	2.85		
Jtah	_	_	_	2.09	_	_	2.00	2.66		
/ermont	2.81	2.77	3.02	3.16	3.42	4.21	3.96	3.23		
/irginia	3.34	3.78	3.05	2.93	2.54	4.09	4.73	3.77		
Washington	3.86	4.11	1.64	NA	5.73	5.16	4.21	8.62		
West Virginia	_	_	5.59	3.35	3.31	3.00	3.29	3.41		
Wisconsin	2.75	2.91	2.90	3.17	2.92	4.11	3.94	3.09		
Wyoming	10.42	8.72	5.39	NA	1.63	3.43	4.88	7.74		

Table 24. Average Price of Natural Gas Delivered to Electric Utility^a Consumers, by State, 1996-1998

- L				19	97			
State	August	July	June	Мау	April	March	February	January
Johanna	2.50	0.54	2.05	2.44	2.24	2.42	2.04	4.07
llabama	2.56 1.69	2.51 1.87	2.65 1.79	2.44 1.64	3.21 1.63	2.12 1.55	2.04 1.69	4.37 1.68
.laska								
rizona	2.63	2.20	3.03	3.11	4.47	2.85	4.01	5.70
Arkansas	2.64	2.38	2.40	1.92	1.98	1.60	1.92	4.18
California	2.77	2.68	2.77	2.60	2.66	3.04	4.14	4.80
Colorado	2.77	4.07	2.31	6.20	2.47	2.26	3.32	3.76
Connecticut	2.35	2.33	2.26	2.22	2.22	2.45	3.08	3.97
Delaware	3.00	2.83	1.95	3.68	2.53	2.61	2.90	4.87
District of Columbia	_	_	_	_	_	_	_	_
Florida	2.50	2.30	2.33	2.09	2.26	2.05	2.13	4.60
Georgia	2.27	2.75	3.13	2.64	2.64	3.34	8.15	2.08
ławaii		_	- -	_	_		-	
daho	_	_	_	_	_	_	_	_
llinois	2.39	2.31	2.37	2.29	2.12	2.00	2.97	3.41
ndiana	3.39	2.77	2.99	3.06	2.88	2.74	3.74	5.04
owa	3.12	2.70	3.28	2.89	2.79	2.73	3.74	5.11
(ansas	2.13	2.06	2.11	2.14	2.00	1.80	2.92	4.56
Centucky	2.92	2.87	2.96	2.83	3.13	3.20	3.69	4.85
ouisiana	2.60	2.44	2.65	2.45	2.18	2.10	2.93	4.35
Maine	_		_	_	_	_	_	_
Anniond	2.00	2.25	2.60	2.00	2.14	4.10	E 7E	E 0.4
Maryland	2.89	2.35	2.69	2.98	3.14	4.18	5.75	5.04
Aassachusetts	2.87	2.81	2.92	2.84	2.54	2.64	3.29	5.37
/lichigan	0.58	0.96	0.89	0.42	0.61	0.69	0.59	0.56
/linnesota	2.43	2.43	2.34	2.30	2.34	2.17	3.35	2.26
Mississippi	2.61	2.46	2.52	2.37	2.27	2.08	2.61	4.15
Missouri	2.51	2.39	2.44	2.74	2.77	2.26	4.62	5.41
Montana	1.92	1.37	9.35	13.57	2.87	4.08	9.68	3.54
Nebraska	2.49	2.32	2.00	1.89	1.89	2.29	3.20	3.22
Nevada	2.02	1.98	2.09	1.99	2.02	2.05	2.33	2.14
New Hampshire	2.55	2.74	2.72	2.68	_	_	_	_
lavv lamanı	2.07	2.00	2.05	2.70	2.00	2.57	2.00	4.05
New Jersey	2.87	2.80	2.85	2.76	2.69	2.57	3.60	4.65
New Mexico	2.47	2.46	2.38	2.39	2.07	2.01	2.85	4.07
New York	2.60	2.58	2.65	2.62	2.53	2.56	3.35	4.36
North Carolina	3.09	3.12	2.87	2.64	2.79	_	_	6.89
North Dakota	_	4.00	_	4.14	3.98	2.93	_	_
Ohio	4.28	3.10	3.20	4.13	4.06	4.03	4.16	4.38
Oklahoma	2.49	2.37	2.63	2.91	2.57	2.57	4.36	4.21
Oregon	1.49	1.35	1.57	_	_	1.40	_	1.96
Pennsylvania	2.81	2.54	3.04	2.57	2.31	2.22	2.91	4.65
Rhode Island	3.04	2.98	3.21	3.09	2.82	2.90	4.09	3.18
South Carolina	A F A	4 25	2 5 4	2 0 4	2 07	2.04	4.22	6.05
South Carolina	4.54 —	4.35	3.51	3.84	3.87	2.84	4.22	6.95
South Dakota			_	_	_	_	_	_
ennessee	_	_	_ 2.40	_	- 2.44	_	_	2.00
exas	2.50	2.39	2.46	2.34	2.14	2.12	2.84	3.89
Jtah	1.79	1.86	4.82	_	_		_	_
/ermont	2.90	2.95	3.06	2.83	2.27	2.61	3.60	5.05
/irginia	2.95	2.58	2.93	3.05	2.71	2.76	1.80	3.13
Vashington	0.67	4.83	3.83	7.21	5.93	NA	4.50	5.08
Vest Virginia	3.71	3.79	3.23	3.22	3.63	3.82	7.68	3.15
Visconsin	2.85	3.12	2.81	2.58	2.46	2.33	3.42	4.74
Vyoming	34.13	20.44	4.00	11.82	24.02	22.85	2.47	13.99

a Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.
 NA = Not Available.
 — = Not Applicable.
 Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia.
 See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.
 Sources: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998

	YT 19:		YT 19		YT 199		199	98
State	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Septe	mber
	Commercial	industrial	Commercial	industrial	Commercial	industrial	Commercial	Industrial
Alahama	70.1	15.5	62.8	24.0	82.5	22.9	69.1	14.2
AlabamaAlaska	57.5	NA	55.2	97.1	65.6	62.9	54.9	NA
Arizona	85.4	32.8	84.8	22.8	85.6	20.2	83.4	33.3
Arkansas	NA NA	9.2	94.5	10.5	95.3	12.8	44.2	10.4
California	45.6	10.6	51.1	9.4	55.2	10.4	28.4	9.3
Colorado	NA	NA	93.4	23.0	93.3	22.0	85.8	_
Connecticut	69.6	56.1	85.3	67.2	87.6	88.3	55.3	59.6
Delaware	100.0	21.8	100.0	31.9	100.0	39.4	100.0	17.5
District of Columbia	52.3	_	54.9	_	74.5	_	36.5	_
Florida	96.4	4.2	97.8	10.5	97.2	13.3	96.5	3.9
Georgia	83.7	13.4	89.1	25.6	94.7	33.3	71.1	14.4
Hawaii	100.0	_	100.0	_	100.0	_	100.0	_
Idaho	87.3	2.5	87.0	2.0	87.3	1.4	80.3	2.5
Illinois	48.4	.8.1	55.3	12.0	54.0	12.8	43.2	7.0
Indiana	NA	NA	87.8	15.2	96.4	16.6	NA	NA
lowa	81.3	10.2	89.2	7.6	88.3	7.3	76.8	6.4
Kansas	69.8	8.8	70.6	9.8	70.5	7.6	55.4	13.8
Kentucky	86.5	13.8	89.7	19.5	91.0	29.0	81.6	12.0
Louisiana	NA	7.3	96.0	10.4	98.2	10.2	68.4	8.8
Maine	100.0	91.0	100.0	92.1	100.0	91.0	100.0	87.1
Maryland	NA	NA	71.3	9.8	91.9	12.5	NA	NA
Massachusetts	NA	NA	63.0	20.6	77.8	26.9	NA	NA
Michigan	58.4	6.6	63.9	9.1	67.0	9.1	41.1	5.0
Minnesota	94.9	42.1	98.9	40.2	96.8	40.4	98.3	78.1
Mississippi	NA	NA	95.1	39.6	97.6	41.5	NA	27.1
Missouri	78.8	17.9	80.1	21.6	82.8	24.4	69.2	12.7
Montana	NA	2.8	91.7	3.1	91.7	3.3	68.2	0.9
Nebraska	76.0	17.2	75.7	26.6	71.9	20.3	75.1	40.8
Nevada	72.4	.3.1	71.9	1.9	75.3	1.6	56.6	20.7
New Hampshire	NA	NA	93.1	52.5	97.7	56.2	91.9	21.5
New Jersey	NA	NA	58.7	47.1	74.8	56.2	NA	NA
New Mexico	59.9	13.6	73.1	28.5	62.9	2.2	45.9	12.9
New York	NA	NA	64.6	8.3	NA	10.3	NA	NA
North Carolina	89.8	25.6	93.2	38.8	97.3	61.2	82.3	18.0
North Dakota	74.6	27.0	89.8	19.6	87.8	18.2	18.9	27.9
Ohio	NA	NA	65.8	5.8	71.5	7.3	41.7	1.2
Oklahoma	74.7	3.5	83.2	4.8	84.8	6.6	57.9	1.8
Oregon	NA	NA	98.6	16.9	98.4	19.3	98.7	12.0
Pennsylvania	NA	13.5	64.7	14.2	74.1	18.8	57.4	12.1
Rhode Island	NA	NA	83.7	18.3	94.4	17.2	49.3	33.7
South Carolina	97.9	86.8	98.7	86.6	99.2	85.7	96.7	88.3
South Dakota	83.3	30.9	83.8	21.9	83.7	26.2	73.5	20.8
Tennessee	NA	NA	91.8	38.6	94.8	48.7	66.7	19.9
Texas	54.1	14.3	60.6	18.2	83.6	20.8	36.5	15.8
Utah	82.1	8.4	82.8	8.9	81.7	8.8	77.6	9.2
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	71.1	12.4	78.2	9.9	85.7	17.6	57.6	8.5
Washington	NA	NA	89.3	23.9	86.0	25.0	NA	NA
West Virginia	NA	NA	55.2	12.2	55.0	14.4	28.9	NA
Wisconsin	69.3 NA	19.2	82.4	27.4	92.1	37.7	35.9	15.4
Wyoming	NA	NA	81.8	2.5	93.5	3.4	83.8	2.5
Total	64.8	14.5	71.2	17.9	78.4	19.6	49.4	14.5

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998 — Continued

State Alabama Alaska Arizona Arkansas California Colorado Connecticut Delaware	72.0 57.0 82.7 46.1 24.6 *91.3 58.1 100.0	12.9 NA 32.6 8.7 8.2	71.8 56.0 84.1 48.8 31.4	Industrial 14.5 96.5	Jur Commercial	ne Industrial	Ma Commercial	ay Industrial
AlaskaArizona	72.0 57.0 82.7 46.1 24.6 ^R 91.3 58.1	12.9 NA 32.6 8.7 8.2	71.8 56.0 84.1 48.8	14.5	l l	Industrial	Commercial	Industrial
AlaskaArizona	57.0 82.7 46.1 24.6 *891.3 58.1	NA 32.6 8.7 8.2	56.0 84.1 48.8					
AlaskaArizona	57.0 82.7 46.1 24.6 *891.3 58.1	NA 32.6 8.7 8.2	56.0 84.1 48.8					
Arizona Arkansas California Colorado Connecticut	82.7 46.1 24.6 ^R 91.3 58.1	32.6 8.7 8.2	84.1 48.8	96.5	74.7	14.5	35.4	13.3
Arkansas California Colorado Connecticut	46.1 24.6 ^R 91.3 58.1	8.7 8.2	48.8		53.6	100.0	55.9	100.0
California Colorado Connecticut	24.6 ^R 91.3 58.1	8.2		32.8	86.2	33.8	83.3	35.8
California Colorado Connecticut	^R 91.3 58.1	8.2	31.4	7.7	NA	9.0	88.7	9.0
Connecticut	58.1	NA		9.5	52.9	11.2	48.3	11.7
Connecticut	58.1		NA	NA	91.8	NA	95.0	1.0
		51.5	62.4	57.1	61.2	52.9	76.3	55.7
Jelaware		11.3	100.0	17.8	100.0	19.3	100.0	19.5
District of Columbia	35.4	11.3		17.0		19.5		19.5
District of Columbia		- 6.4	40.4	4.0	41.9		47.7	
Florida	96.3	6.1	96.0	4.2	96.6	4.3	96.7	3.5
Georgia	68.9	7.0	68.9	5.1	79.0	15.1	82.0	15.7
Hawaii	100.0	_	100.0		100.0		100.0	_
daho	83.1	3.5	83.9	2.7	85.3	1.8	85.4	2.2
Ilinois	37.9	6.0	35.4	4.9	45.8	5.2	34.8	6.8
ndiana	NA	NA	NA	NA	NA	4.2	76.7	6.2
	70.7	5 0	60.6	5 0	70.0	4.5	07.0	5 4
owa	79.7	5.2	69.6	5.3	70.3	4.5	87.3	5.4
Kansas	59.9	10.4	58.8	13.4	54.2	10.7	68.5	8.1
Kentucky	78.9	11.6	76.4	15.2	82.6 NA	13.8	84.2	14.7
_ouisiana	69.5	7.5	69.7	6.9		7.0	96.5	7.3
Maine	100.0	85.7	100.0	84.1	100.0	87.9	100.0	84.1
Maryland	31.1	6.2	29.0	2.5	33.3	NA	29.7	9.0
Massachusetts	51.3	18.1	48.4	16.8	46.3	NA	52.8	28.8
Michigan	35.9	3.8	38.1	4.4	40.8	4.8	42.2	5.9
Vinnesota	98.1	36.9	97.2	34.8	98.2	40.7	98.5	35.1
ViimiesotaViississippi	NA.	NA NA	^R 94.3	NA	^R 94.9	NA	^R 93.6	NA.
Missouri	43.6	12.2	65.6	16.4	69.4	13.0	75.7	14.0
Montana	73.4	1.2	69.1	0.7	75.3	4.4	NA	1.2
Nebraska	81.5	10.4	65.6	5.7	66.3	13.5	74.0	14.8
	56.4	19.1	66.3	4.0	70.9	4.6	71.9	4.8
Nevada New Hampshire	NA NA	NA NA	89.1	34.9	NA NA	32.7	94.3	38.9
New Jersey	50.0	33.4	47.4	25.6	51.5	27.7	46.0	26.4
New Mexico	45.9	15.1	46.7	17.9	39.7	13.9	R48.8	R10.0
New York	^R 45.7	NA	^R 49.6	NA	^R 47.4	^R 6.9	NA	NA
North Carolina	83.8	21.3	83.3	26.4	82.5	24.3	86.7	26.9
North Dakota	67.7	18.9	80.8	22.9	82.1	24.3	79.2	15.4
Ohio	35.3	0.8	NA	NA	44.7	1.3	41.4	1.5
Oklahoma	56.4	1.8	55.4	2.1	63.6	2.2	70.4	2.9
Oregon	98.7	13.4	98.9	NA . I	98.9	14.9	98.8	15.0
Pennsylvania	NA	11.6	51.4	12.3	54.9	12.7	59.4	13.2
Rhode Island	100.0	34.2	48.5	31.2	53.3	33.4	^R 58.6	NA
	05.7						a	
South Carolina	96.8	88.1	97.4 75.4	87.5	97.4	88.2	98.2	87.7
South Dakota		17.1	75.4	22.5	72.8	24.9	65.9	15.8
Tennessee		21.3	63.7	20.3	66.6	23.3	77.4	23.9
Texas	34.2	14.7	48.8	12.1	63.8	15.2	55.9	14.1
Jtah	71.6	8.7	70.7	7.5	75.6	9.1	73.7	8.9
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
√irginia	50.8	13.2	69.4	8.4	66.8	9.3	70.0	13.0
Washington		NA	NA	NA	NA	NA	NA	NA
West Virginia		NA	7.6	NA	NA	NA	29.0	NA
Wisconsin	_	12.3	45.1	12.6	52.4	15.5	53.8	15.1
Wyoming		NA	NA.	NA	NA NA	2.3	89.8	1.8
Total	^R 46.8	13.6	^R 51.3	^R 12.7	^R 59.9	^R 13.9	^R 60.2	13.9

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998 — Continued

Alabama Alaska Arizona Arkansas California Colorado Connecticut Delaware District of Columbia Florida Georgia Hawaii Idaho Illinois Indiana lowa Kansas Kentucky Louisiana Maine Maryland	80.2 57.4 84.9 89.5 52.7 95.8 62.3 100.0	14.8 100.0 32.7 9.1 10.9	77.8 57.6 86.7 93.9	Industrial	Febru Commercial	uary Industrial	Janu Commercial	uary Industrial
Alabama Alaska Arizona Arkansas California Colorado Connecticut Delaware District of Columbia Florida Georgia Hawaii Idaho Illinois Indiana lowa Kansas Kentucky Louisiana Maine Maryland	80.2 57.4 84.9 89.5 52.7 95.8 62.3	14.8 100.0 32.7 9.1 10.9	77.8 57.6 86.7 93.9	17.4	Commercial	Industrial	Commercial	Industrial
Alaska Arizona Arkansas California Colorado Connecticut Delaware District of Columbia Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maine Maryland	57.4 84.9 89.5 52.7 95.8 62.3	100.0 32.7 9.1 10.9	57.6 86.7 93.9					
Alaska Arizona Arkansas California Colorado Connecticut Delaware District of Columbia Florida Georgia Hawaii Idaho Illinois Indiana lowa Kansas Kentucky Louisiana Maryland	57.4 84.9 89.5 52.7 95.8 62.3	100.0 32.7 9.1 10.9	57.6 86.7 93.9					
Arizona Arkansas California Colorado Connecticut Delaware District of Columbia Florida Georgia Hawaii Idaho Illinois Indiana Ilowa Kansas Kentucky Louisiana Maine Maryland	84.9 89.5 52.7 95.8 62.3	32.7 9.1 10.9	86.7 93.9		80.1	17.8	76.7	19.4
Arkansas	89.5 52.7 95.8 62.3	9.1 10.9	93.9	100.0	60.0	100.0	59.9	100.0
California Colorado Connecticut Delaware District of Columbia Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maryland	52.7 95.8 62.3	10.9		34.0	87.2	27.7	86.9	32.3
Colorado Connecticut Delaware District of Columbia Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maryland	95.8 62.3		71.1	10.2 16.5	95.3 54.3	10.9 8.7	95.5 58.1	10.5 11.0
Connecticut	62.3	0.8						
Delaware District of Columbia Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maryland Maryland			96.0	1.2	95.2	1.2	95.4	2.5
District of Columbia Florida Georgia Hawaii Idaho Illiinois Indiana Ilowa Kansas Kentucky Louisiana Maryland Maryland		61.9	71.2	59.4	78.2	57.8	78.4	61.0
Florida		23.3	100.0	27.9	100.0	28.6	100.0	26.4
Georgia Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maine Maryland	52.5	_	60.1	_	59.0	_	60.2	_
Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maine Maryland	96.8	4.5	96.2	4.4	96.3	4.0	96.3	4.5
Idaho	85.5	13.4	87.5	17.2	90.3	16.7	88.7	16.5
Illinois Indiana lowa Kansas Kentucky Louisiana Maine Maryland	100.0	_	100.0	_	100.0		100.0	_
Indiana	86.4	2.2	88.1	2.0	88.7	3.0	90.0	2.5
lowa Kansas Kentucky Louisiana Maine	44.3 NA	9.1 NA	55.3	10.6	50.4	9.8	53.7	10.7
Kansas Kentucky Louisiana Maine Maryland	NA	NA	88.6	12.3	84.6	11.1	85.7	11.2
Kentucky Louisiana Maine Maryland	82.8	19.9	72.1	22.8	88.7	7.1	87.4	7.4
Louisiana Maine Maryland	69.5	5.6	76.9	5.5	73.1	5.3	71.5	5.1
Maine Maryland	85.7	14.7	90.0	13.1	86.5	17.2	90.0	12.3
Maryland	98.1	7.2	58.2	9.8	60.9	6.0	74.1	5.4
	100.0	97.9	100.0	97.9	100.0	97.9	100.0	97.9
	42.9	1.6	50.9	5.1	54.7	3.7	65.6	0.7
Massachusetts	60.0	27.5	65.5	29.0	61.4	32.5	64.3	30.3
Michigan	58.3	9.6	64.3	12.1	65.2	12.6	69.5	13.5
Minnesota	96.1	38.9	96.2	48.8	93.3	37.4	91.9	45.0
Mississippi	R93.3	NA	R89.6	NA	94.8	38.5	R95.3	NA
Missouri	82.0	17.4	83.3	21.5	85.4	24.0	85.2	23.7
Montana	79.4	2.2	83.1	3.5	83.1	4.3	88.3	4.7
Nebraska	71.5	21.3	77.3	24.0	78.0	23.2	79.9	30.1
Nevada	73.2	5.8	75.9	7.1	79.8	15.3	77.3	7.2
New Hampshire	96.2	47.0	96.1	39.1	96.2	37.2	96.4	30.4
New Jersey	55.2	29.2	62.4	29.5	62.1	34.6	59.4	31.7
New Mexico	^R 57.3	^R 6.5	^R 66.7	1.5	^R 63.8	1.8	^R 71.1	^R 8.2
New York	58.1	10.1	NA .	10.1	NA NA	NA .	NA .	NA.
North Carolina	90.6	31.2	91.1	26.6	93.1	27.3	93.4	27.6
North Dakota	80.0	25.3	87.0	32.1	84.9	33.3	89.1	36.1
Ohio	53.9	2.7	60.1	3.2	60.2	4.7	60.5	4.5
Oklahoma	75.0	4.9	77.7	5.2	83.2	5.2	81.1	6.3
Oregon	NA	NA.	NA.	NA.	99.2	15.3	99.3	19.7
Pennsylvania	NA	13.3	57.7	14.2	57.2	15.2	58.7	16.3
Rhode Island	NA	41.2	64.7	49.9	71.6	38.5	64.5	39.7
South Carolina	98.4	86.0	98.2	84.9	98.4	85.4	98.1	85.8
South Dakota	93.7	56.2	85.6	37.9	96.4 85.7	45.9	86.5	45.2
Tennessee	75.8	29.3	93.1	28.1	87.8	25.5	NA	NA
Texas	59.8	14.5	61.3	15.2	71.6	15.5	68.3	12.3
Utah	82.5	7.9	81.2	8.6	89.1	8.5	85.7	7.8
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	70.9	11.2	73.4	19.2	76.7	14.6	74.4	18.7
Washington	70.9 NA	NA NA	73.4 NA	NA	NA	NA	74.4 NA	NA
West Virginia	50.3	5.8	51.9	6.2	55.5	14.9	56.0	6.3
Wisconsin	72.9	19.3	77.6	23.4	80.3	23.8	85.4	26.0
Wyoming	^R 92.1			NA NA		NA NA	NA	
Total		3.4	87.4		80.3	11/4	NA	1.5

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998 — Continued

	1997										
State	Tot	al	Decei	mber	Nove	mber	Octo	ber			
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial			
Alabama	64.7	24.6	80.9	27.9	69.1	26.4	51.0	24.5			
Alaska	54.5	97.8	54.2	100.0	51.9	100.0	52.2	100.0			
Arizona	84.6	25.1	85.2	33.0	83.2	31.2	81.1	30.2			
Arkansas California	94.2 50.7	10.5 8.9	95.9 52.9	10.4 9.3	90.4 49.4	11.2 7.4	92.6 41.9	9.7 6.1			
Colorado	92.8	22.6	93.0	22.7	90.9	25.1	96.0	20.2			
Connecticut	92.8 81.9	23.6 66.4	93.0 77.0	23.7 61.7	89.8 71.1	25.1 65.9	86.9 68.6	28.3 65.9			
Delaware	100.0	31.0	100.0	28.1	100.0	28.0	100.0	29.9			
District of Columbia	54.9	100.0	55.9	100.0	60.4	100.0	44.5	100.0			
Florida	97.5	10.0	96.0	8.4	96.4	8.1	97.5	8.8			
Tiona	97.5	10.0	30.0	0.4	90.4	0.1	97.5	0.0			
Georgia	89.1	26.7	91.6	32.7	88.6	27.6	85.6	30.8			
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
Idaho	86.1	2.0	86.6	2.0	83.2	1.8	76.4	1.5			
Illinois	54.3	11.5	52.1	11.9	52.5	9.4	50.4	9.1			
Indiana	89.8	16.0	94.1	15.4	96.0	22.6	93.9	16.1			
lowa	88.2	8.6	89.3	9.3	85.0	13.4	80.1	11.5			
Kansas	70.7	9.5	73.3	7.5	66.0	9.9	73.6	9.9			
Kentucky	90.0	19.2	91.3	17.6	89.9	18.7	89.9	19.5			
Louisiana	95.9	10.1	96.5	7.9	95.1	9.3	94.7	9.9			
Maine	100.0	91.4	100.0	88.7	100.0	91.4	100.0	88.4			
Maryland	67.1	7.4	52.7	1.1	64.7	3.3	51.8	7.0			
Massachusetts	62.6	20.2	68.5	19.2	62.9	21.0	48.7	16.8			
Michigan	63.7	9.0	65.6	11.8	64.8	9.5	54.2	4.0			
Minnesota	98.8	40.4	98.5	40.9	99.1	42.9	98.6	38.7			
Mississippi	94.8	39.6	95.0	41.1	94.0	38.0	91.2	40.2			
Missouri	79.9	21.8	82.6	23.3	78.3	23.8	68.6	19.7			
Montana	91.4	3.1	92.8	3.7	90.5	2.8	88.1	2.3			
Nebraska	74.2	27.0	77.2	25.6	72.3	41.2	50.0	22.2			
Nevada	71.4	1.8	72.7	2.1	67.9	1.6	65.9	1.2			
New Hampshire	92.4	48.8	93.9	32.4	89.1	34.2	85.7	44.2			
New Jersey	56.2	47.0	52.0	49.0	48.2	48.3	47.0	42.8			
New Mexico	74.6	5.7	81.5	7.8	78.0	6.8	67.0	4.6			
New York	64.7	8.5	67.8	10.3	65.7	10.0	59.3	7.6			
North Carolina	94.4	45.5	95.7	35.7	99.4	81.7	98.2	73.8			
North Dakota	88.9	18.5	84.4	15.3	90.5	17.7	83.2	11.9			
Ohio	65.6	5.7	67.1	7.3	67.3	6.1	55.1	2.7			
Oklahoma	81.8	4.7	81.8	7.3 5.4	71.4	4.3	76.9	3.1			
Oregon	98.5	16.3	98.4	16.0	98.4	14.5	97.5	14.1			
Pennsylvania	63.6	14.2	63.9	15.3	63.8	14.8	50.1	12.6			
Rhode Island	80.5	17.5	64.0	11.4	80.7	13.5	71.1	21.1			
South Carolina	98.8	86.9	98.0	84.7	100.0	89.1	99.9	89.8			
South Dakota	83.3	24.1	86.0	34.2	84.0	37.4	68.3	17.8			
Tennessee	92.2	38.3	92.9	35.3	95.0	39.8	89.9	37.3			
Texas	61.4	17.3	68.3	14.6	63.7	14.1	55.0	14.7			
Utah	83.3	8.9	86.1	8.2	83.1	9.5	80.2	8.9			
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
Virginia	77.9	13.0	71.3	19.4	90.2	28.8	71.2	18.6			
Washington	84.1	23.5	93.4	19.3	54.5	24.0	90.6	25.0			
West Virginia	54.6	12.2	58.9	11.7	53.4	12.7	38.7	12.8			
Wisconsin	82.1	27.1	83.1	26.6	85.9	27.6	69.3	24.3			
Wyoming	84.2	2.5	96.2	2.7	88.2	1.8	87.9	2.7			

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998 — Continued

State Alabama	Septe Commercial	mber	Aug	uet	1			
Alabama	Commercial			นอเ	July		June	
Alabama		Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	40.0							
	40.8	24.3	31.8	24.7	29.1	25.5	57.7	23.1
Alaska	49.9	100.0	45.0	92.8	49.9	91.4	50.4	99.0
Arizona	83.9	29.5	78.7	29.3	79.8	30.5	82.7	18.2
Arkansas California	91.3 41.0	8.3 8.6	91.8 41.7	7.3 7.2	90.3 45.8	8.5 7.3	91.1 48.7	9.8 8.4
Colorada	00.0	24.6	02.4	22.6	06.0	22.2	02.0	25.7
Colorado	90.2 75.0	24.6 64.2	83.1 80.2	23.6 60.8	86.2 76.0	33.3 62.2	92.9 79.7	25.7 62.5
Connecticut Delaware	100.0	64.2 27.7	100.0	28.4	100.0	62.2 28.4	100.0	62.5 29.1
District of Columbia	35.5	100.0	38.8	100.0	43.9	100.0	46.7	100.0
Florida	97.8	8.9	97.9	9.3	43.9 97.7	9.5	98.2	100.0
riorida	97.0	0.9	97.9	9.3	97.7	9.5	96.2	10.6
Georgia	82.9	15.5	81.9	26.1	81.0	27.6	84.3	22.5
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	82.5	1.7	82.9	1.4	83.2	2.0	83.3	2.3
Illinois	47.7	12.1	40.3	6.2	46.7	4.0	55.8	17.0
Indiana	87.2	10.3	86.8	9.5	85.4	11.0	59.4	11.3
lowa	77.9	6.7	85.1	6.7	75.8	6.1	92.7	5.8
Kansas	57.3	10.9	52.2	11.9	54.0	9.2	65.4	8.2
Kentucky	84.9	16.3	80.3	14.4	84.0	15.4	88.6	16.8
Louisiana	94.3	9.0	95.1	9.9	95.2	9.9	95.2	10.4
Maine	100.0	86.7	100.0	87.6	100.0	100.0	100.0	87.4
Maryland	48.6	2.7	50.4	6.4	51.6	4.4	56.1	8.6
Massachusetts		16.6	41.3	13.6	46.0	14.4	48.5	21.6
Michigan	39.7	2.7	40.7	3.4	55.7	3.7	45.7	5.1
Minnesota	97.7	42.0	98.2	34.8	98.4	36.2	98.7	37.9
Mississippi	91.0	42.9	93.6	38.6	96.1	35.0	92.5	38.2
Missouri	68.3	22.6	68.4	17.0	68.3	18.4	71.3	19.0
Montana	85.7	1.9	87.5	1.9	90.5	1.7	88.8	2.2
Nebraska	63.2	26.5	69.2	18.6	67.6	41.2	68.6	20.6
Nevada	63.0	1.1	63.2	1.6	73.3	1.8	61.0	1.8
New Hampshire		49.6	88.1	47.0	87.0	50.6	90.7	53.3
New Jersey	47.2	43.6	47.8	57.0	44.8	42.1	50.1	41.4
New Mexico		7.0	63.7	8.8	63.9	8.9	54.0	3.9
New York	56.2	7.4	54.7	7.7	53.3	6.0	53.6	5.8
North Carolina	86.9	25.2	85.0	21.1	85.2	24.3	97.6	46.3
North Dakota	72.5	8.4	65.5	12.6	81.5	13.9	79.1	11.0
Ohio	50.5	2.2	49.3	2.9	47.5	2.9	50.2	2.8
Oklahoma	69.9	3.2	68.1	3.0	74.1	3.9	75.5	2.0
Oregon	98.0	12.1	98.3	11.4	98.3	13.3	98.1	16.7
Pennsylvania	57.8	12.1	58.4	12.4	55.8	10.9	56.4	13.1
Rhode Island	68.7	17.1	67.9	20.7	71.1	15.2	72.4	18.6
South Carolina	98.8	87.5	97.0	85.3	99.9	91.1	100.0	90.0
South Dakota		14.0	72.1	12.6	78.3	12.0	83.7	11.4
Tennessee		33.1	84.9	29.4	85.2	35.1	81.6	38.7
Texas		15.2	51.7	15.4	51.2	15.0	55.0	20.4
Utah		11.7	71.7	7.7	72.8	8.0	77.0	9.1
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia		100.0	65.3	6.4	63.6	7.0	66.2	100.0
Washington		19.2	87.7	17.8	86.2	21.7	87.0	26.2
West Virginia		12.0	25.2	11.6	26.8	12.1	31.9	11.5
Wisconsin		21.3	55.4	19.6	67.9	18.8	60.6	18.4
Wyoming		3.1	84.9	2.7	43.9	2.8	67.8	2.5
Total	59.5	15.1	57.9	15.6	59.5	15.3	61.7	17.4

See footnotes at end of table.

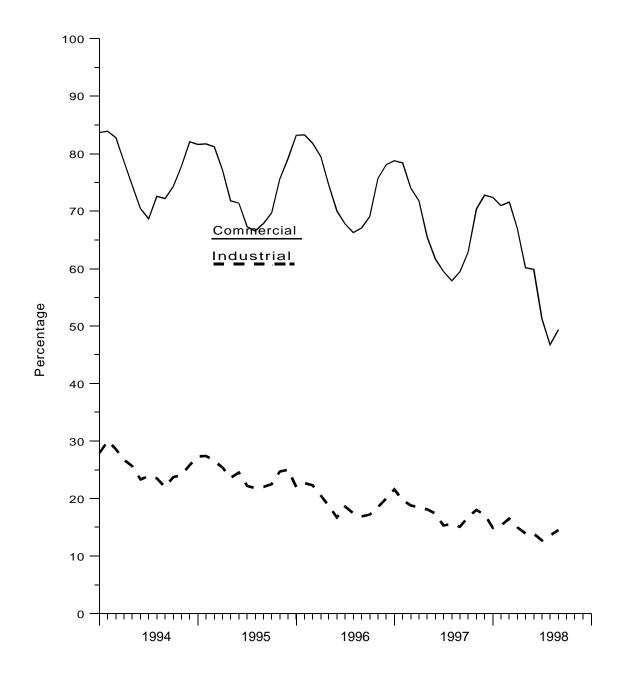
Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998 — Continued

	1997									
State	Ma	May April March		Febr	uary					
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial		
Alabama	63.4	23.9	66.9	22.8	81.7	23.3	84.5	25.3		
Alaska	54.8	99.0	57.1	98.7	57.7	98.6	59.0	97.9		
Arizona	86.1	17.5	83.9	19.6	86.5	19.5	87.9	21.9		
Arkansas California	91.8 50.3	11.2 12.4	93.8 52.8	10.8 10.0	95.2 54.8	11.9 10.3	96.7 59.6	13.5 10.9		
Colorado	93.7	24.1	93.9	28.5	94.4	17.9	95.4	16.0		
Connecticut	80.3	64.4	87.2	67.1	87.1	67.0	90.2	77.9		
Delaware	100.0	35.4	100.0	36.8	100.0	33.7	100.0	35.0		
District of Columbia	53.7	100.0	48.4	100.0	59.9	100.0	62.8	100.0		
Florida	98.3	9.8	98.3	10.7	97.7	10.3	97.4	12.5		
Georgia	85.4	21.5	88.5	25.5	90.0	24.9	93.5	32.7		
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
Idaho	86.5	2.5	86.1	2.1	87.8	2.1	89.7	2.2		
Illinois	48.4	15.9	54.1	9.8	55.4	11.9	55.3	11.3		
Indiana	58.0	11.7	91.1	12.9	93.4	15.4	96.7	23.5		
lowa	83.8	6.1	93.5	8.1	89.0	8.3	90.7	8.1		
Kansas	67.1	9.4	72.6	9.4	67.1	9.5	72.1	10.6		
Kentucky	86.3	19.4	89.0	18.5	90.3	19.1	91.5	23.6		
Louisiana	95.3	11.2	95.5	9.5	96.6	10.4	97.1	11.3		
Maine	100.0	90.3	100.0	90.5	100.0	91.0	100.0	100.0		
Maryland	62.0	15.9	71.5	2.2	77.6	21.7	81.9	18.6		
Massachusetts	69.9	19.3	74.1	25.0	72.8	21.8	69.0	25.0		
Michigan	58.6	7.7	66.2	10.3	67.3	12.5	70.2	14.3		
Minnesota	98.9	39.5	98.9	42.2	98.9	43.2	98.9	45.9		
Mississippi	92.5	43.3	93.2	38.1	96.3	39.2	96.7	40.3		
Missouri	76.9	24.2	80.7	17.0	83.8	26.5	80.0	19.9		
Montana	90.3	2.1	91.2	4.5	92.0	4.0	93.1	4.0		
Nebraska	67.0	25.8	77.5	21.8	74.2	25.4	91.9	31.8		
Nevada	64.8	1.8	69.3	2.1	78.1	2.1	79.8	2.5		
New Hampshire	91.6	58.5	92.0	61.7	94.0	53.1	96.2	48.5		
New Jersey	45.7	43.3	55.9	49.6	58.4	45.7	89.2	44.0		
New Mexico	68.1	5.3	66.9	1.4	77.3	1.9	79.0	1.0		
New York	59.1	7.0	67.8	8.5	69.3	9.5	72.2	10.1		
North Carolina	89.4	26.5	88.0	26.5	91.9	35.1	96.0	45.0		
North Dakota	88.1	18.2	91.7	16.5	91.2	35.5	93.8	27.0		
Ohio	58.9	4.6	65.7	4.7	70.1	7.9	69.3	8.1		
Oklahoma	80.6	4.2	82.8	3.8	84.9	6.0	87.9	8.8		
Oregon	98.5	17.3	98.5	20.4	98.8	21.0	98.9	22.5		
PennsylvaniaRhode Island	50.1 80.8	13.2 18.8	66.2 88.5	14.1 23.9	65.8 82.2	15.5 22.9	71.2 91.7	15.0 14.9		
South Carolina	100.0	89.3	96.0	81.4	97.8	83.6	98.3	81.8		
South Dakota	80.7	17.3	85.7	22.6	86.3	26.7	85.7	30.4		
Tennessee	90.5 55.8	50.5	92.6 58.2	39.4	92.8 62.7	34.4	94.4	40.3		
Texas Utah	55.8 78.8	19.2 8.7	58.2 83.7	21.3 9.0	62.7 83.0	18.1 6.5	70.0 87.1	18.2 10.5		
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
Virginia		8.8 21.6	75.3	16.2	79.4	17.5	83.7	8.4 27.6		
Washington		21.6 11.6	89.3	27.6	91.3	28.0	91.7	27.6		
West VirginiaWisconsin		26.1	52.9 83.3	7.3 24.4	62.3 88.5	20.4 32.7	69.7 88.2	15.1 34.6		
Wyoming	87.1	2.4	76.0	24.4	84.6	2.5	89.9	2.5		
-										
Total	65.5	18.1	71.8	18.4	74.0	18.8	78.4	19.7		

R = Revised Data.
NA = Not Available.
— = Not Applicable.
Notes: Volumes of natural gas reported for the commercial and industrial sectors in this publication include data for both sales and deliveries for the account of others. This table shows the percent of the total State volume that represents natural gas sales to the commercial and industrial sectors. This information may be helpful in evaluating commercial and industrial price data which are based on sales data only. See Appendix C, Statistical Considerations, for a discussion of the computation of natural gas prices.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Figure 6. Percentage of Total Deliveries Represented by Onsystem Sales, 1994-1998



Sources: Energy Information Administration, Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers" and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Table 26. Gas Home Customer-Weighted Heating Degree Days

	November 1 through November 30							
Census				Percent Change				
Divisions	Normala	1997	1998	Normal to 1998	1997 to 1998			
New England								
CT, ME, MA, NH, RI, VT	417	480	424	2.0	-12.0			
Middle Atlantic								
NJ, NY, PA	367	391	340	-7.0	-13.0			
East North Central								
IL, IN, MI, OH, WI	401	430	351	-13.0	-18.0			
West North Central								
IA, KS, MN, MO,	200	407	222	110	10.0			
ND, NE, SD	388	407	333	-14.0	-18.0			
DE, FL, GA, MD and DC,								
NC. SC. VA. WV	205	233	188	-8.0	-19.0			
East South Central				0.0				
AL, KY, MS, TN	203	232	146	-28.0	-37.0			
West South Central								
AR, LA, OK, TX	81	109	42	-48.0	-62.0			
Mountain								
AZ, CO, ID, MT,		446		- 0				
NV, NM, UT, WY	395	416	414	5.0	-1.0			
Pacific ^b	126	122	170	27.0	20.0			
CA, OR, WA U.S. Average ^b	136 285	132 307	172 263	27.0 -8.0	30.0 -14.0			
U.S. Average	200	307	203	-0.0	-14.0			

a Normal is based on calculations of data from 1961 through 1990.
 b Excludes Alaska and Hawaii.

Note: See Appendix A, Explanatory Note 10 for discussion of Heating Degree-Days computations.

Sources: National Oceanic and Atmospheric Administration.

Appendix A

Explanatory Notes

The Energy Information Administration (EIA) publishes monthly data for the supply and disposition of natural gas in the United States in the *Natural Gas Monthly* (NGM). The information in this Appendix is provided to assist users in evaluating the monthly data. There is a brief description of what data are estimated and what data are taken from submitted reports, followed by ten technical notes that provide important information for individual data series.

The monthly data are preliminary when initially published. Data shown in this report for the most current months are taken from the EIA Short-Term Integrated Forecasting System (STIFS) model computations. Each month, EIA staff review the STIFS model estimates and adjust them, if necessary, based on their knowledge of new developments in the natural gas industry. Data for prior months are estimated or taken from submitted reports.

Table A1. Methodology for Reporting Initial Monthly Natural Gas Supply and Disposition Data

Components	Reporting Methodology
Supply and Disposition	
Marketed Production	Reported on Form EIA-895 and Estimated from Historical Data
Extraction Loss	Derived from Marketed Production
Dry Production	Marketed Production minus Extraction Loss
Withdrawals from Storage	Reported on Form EIA-191
Supplemental Gaseous Fuels	Derived from Supply Estimates and Coal Gasification Information
Imports	Estimated from National Energy Board of Canada Information and Liquefied Natural Gas Information
Additions to Storage	Reported on Form EIA-191
Exports	Estimated from Industry Trends and Liquefied Natural Gas Information
Current-Month Consumption	Estimated from Historical Month-to-Month Percent Changes
Consumption by Sector	
Lease and Plant Fuel	Derived from Marketed Production
Pipeline Fuel	Derived from Estimates for Lease and Plant Fuel and Deliveries to Consumers
Residential	Estimated from Reports to the Sample Survey Form EIA-857
Commercial	Estimated from Reports to the Sample Survey Form EIA-857
Industrial	Estimated from Reports to the Sample Survey Form EIA-857
Electric Utilities	Reported on Form EIA-759

For data that are not taken from STIFS computations, Table A1 below lists the methodologies for deriving the monthly data to be published.

The STIFS model contains a series of calculations that produce forecasts for all of the energy industry. It is driven primarily by three sets of inputs or assumptions: estimates of key macroeconomic variables, world oil price assumptions, and assumptions about the severity of weather. The natural gas estimates also reflect other key inputs or assumptions including gas wellhead prices, electric power generation by other energy sources, and U.S. gas import capacity. The macroeconomic variable estimates are produced by DRI/McGraw-Hill but are adjusted by EIA to reflect EIA assumptions about the world price of oil, energy product prices, and other assumptions which may affect the macroeconomic outlook. The EIA publishes forecasts for the energy industry each quarter in the Short-Term Energy Outlook.

For production, total supply and disposition, and storage data (Tables I, 2, and 9), the most current two months shown are estimates produced from STIFS computations, and data that are two months or more prior to the date of publication are estimated or taken from submitted reports. For example, in the March issue of the NGM, February and March data are taken from the STIFS model computations while January and prior months data are estimated from available data sources or reported directly on EIA forms. For consumption data by sector (Table 3), the most current three months shown are estimates produced from STIFS computations while data that are three months prior to date of publication are taken from EIA forms.

Note 1. Nonhydrocarbon Gases Removed

Annual Data

Data on nonhydrocarbon gases removed from marketed production—carbon dioxide, helium, hydrogen sulfide, and nitrogen—are reported by State agencies on the voluntary Form EIA-895. For 1995, of the 33 producing States, 22 reported data on nonhydrocarbon gases removed. The 22 States accounted for 60 percent of total 1995 gross withdrawals. Of the 22 States reporting nonhydrocarbon gases removed, 11 reported zero values: Alaska, Arizona, Arkansas, Colorado, Illinois, Maryland, Missouri, Nevada, New York, South Dakota, and Virginia. The ten States reporting

volumes greater than zero are Alabama, California, Florida, Kentucky, Mississippi, Nebraska, New Mex ico, North Dakota, Texas, and Wyoming. In addition, Kansas, Louisiana, Montana, and Oklahoma, which together accounted for 40 percent of gross withdrawals, did not report nonhydrocarbon gases removed separately. However, their gross withdrawal data excluded all or most of the nonhydrocarbon gases removed on leases. No estimates are made for States not reporting nonhydrocarbon gases removed.

Preliminary Monthly Data

All monthly data are considered preliminary until after publication of the *Natural Gas Annual* for the year in which the report month falls. Seven States report monthly data on nonhydrocarbon gases removed: Alabama, Arizona, Mississippi, New Mexico, North Dakota, Oregon and Texas. Monthly data for California, Colorado, Florida, and Wyoming are estimated based on annual data reported on Form EIA-895. Nonhydrocarbon gases as an annual percentage of gross withdrawals reported by each of the six States is applied to each State's monthly gross withdrawal data to produce an estimate of nonhydrocarbon gases removed.

Final Monthly Data

Beginning with report year 1990, States filing the Form EIA-627, "Annual Quantity and Value of Natural Gas Report," were asked to supply monthly breakdowns of all data previously reported on an annual basis. The sums of the reported figures were used to calculate monthly volumes. In 1997 the Form EIA-627 was discontinued. States were requested to file an annual schedule on the monthly Form EIA-895, "Monthly Quantity and Value of Natural Gas Report."

For States not supplying monthly data on the annual schedule of the EIA-895, final monthly data are calculated by proportionally allocating the differences between total annual data reported on the Form EIA-895 and the sum of monthly data (January-December).

Note 2. Supplemental Gaseous Fuels

Annual Data

Annual data are published from Form EIA-176.

Preliminary Monthly Data

All monthly data are considered preliminary until after the publication of the *Natural Gas Annual* for the year in which the report month falls. Monthly estimates are based on the annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This ratio is applied to the monthly sum of these three elements to compute a monthly supplemental gaseous fuels figure.

Final Monthly Data

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly data are estimated based on the revised annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This ratio is applied to the revised monthly sum of these three elements to compute final monthly data.

Note 3. Production

Annual Data

Natural gas production data are collected from 33 gasproducing States on Form EIA-895 which includes gross withdrawals, vented and flared, repressuring, nonhydrocarbon gases removed, fuel used on leases, marketed production (wet), and extraction loss. The U.S. Minerals Management Service (MMS) also supplies data on the quantity and value of natural gas production on the Gulf of Mexico and Outer Continental Shelf. No adjustments are made to the data.

Estimated Monthly Data

State marketed production data for a particular month are estimated if data are unavailable at the time of publication. The data are estimated based on final monthly data reported on the Form EIA-895 for the previous year.

Estimates for total U.S. marketed production are based on final monthly data reported on the Form EIA-895 for the previous year. State estimates for nonhydrocarbon gas removed, gas used for repressuring, and gas vented and flared are based on the ratio of the item to gross withdrawals as reported on the EIA-895. These ratios are applied to the month's estimates for gross withdrawals to calculate figures for non-hydrocarbon gases removed, gas used for repressuring, and gas vented and flared. Estimates for gross withdrawal data are calculated from final monthly data filed on Form EIA-895 for the previous year.

Preliminary Monthly Data

All monthly data are considered preliminary until after publication of the *Natural Gas Annual* for the year in which the report month falls. Preliminary monthly data are published from reports from the Form EIA-895 and the MMS. Volumetric data are converted, as necessary, to a standard 14.73 psia pressure base. Data are revised as Table 7 monthly data are updated.

Final Monthly Data

Final monthly data for 1993, 1994, and 1995 are the sums of monthly data reported on the annual Form EIA-627, "Annual Quantity and Value of Natural Gas Report." For prior years, the differences between each State's annual production data reported on the EIA-627 and the sum of its monthly IOGCC reports for the year were allocated proportionally to the monthly IOGCC data.

Note 4. Imports and Exports

Annual Data and Final Monthly Data

Annual and final monthly data are published from the Office of Fossil Enery, U.S. Department of Energy, *Natural Gas Imports and Exports*, which requires data to be reported each quarter by month for the calendar year.

Preliminary Monthly Data - Imports

Preliminary monthly import data are based on data from the National Energy Board of Canada and responses to informal industry contacts and EIA estimates. Preliminary data are revised after the publication of the article "U.S. Imports and Exports of Natural Gas" for the calendar year.

Preliminary Monthly Data - Exports

Preliminary monthly export data are based on historical data from the Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*, informal industry contacts, and information gathered from natural gas industry trade publications. Preliminary monthly data are revised after publication of "U.S. Imports and Exports of Natural Gas" for the calendar year in which the report month falls.

Note 5. Consumption

All Annual Data

All consumption data except electric utility data are from the Form EIA-857 and Form EIA-176. No adjustments are made to the data. Electric utility data are reported on Form EIA-759.

Monthly Data

All monthly data are considered preliminary until after publication of the *Natural Gas Annual*.

Total Consumption

Preliminary Monthly Data

The most current month estimate is calculated based on the arithmetic average change from the previous month for the previous 3 years. The following month this estimate is revised by summing the components (pipeline fuel, lease and plant fuel, and deliveries to consumers).

Final Monthly Data

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly total consumption is obtained by summing its components.

Residential, Commercial, and Industrial Sector Consumption

Preliminary Monthly Data

Preliminary monthly residential, commercial, and industrial data are from Form EIA-857. See Appendix C,

"Statistical Considerations," for a detailed explanation off sample selection and estimation procedures.

Average Price of Deliveries to Consumers

Price data are representative of prices for gas sold and delivered to residential, commercial, and industrial consumers. These prices do not reflect average prices of natural gas transported to consumers for the account of third parties or "spot-market" prices.

Final Monthly Data

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are estimated by allocating annual consumption data from the Form EIA-176 to each month in proportion to monthly volumes reported in Form EIA-857.

Agricultural Use

Beginning with the reporting of 1996 annual data, the EIA changed the customer category used for reporting deliveries to consumers in the agricultural industry from commercial to industrial. In 1995 and earlier years, consumption of natural gas for agricultural use was classified as commercial use. Separate reports of the volumes affected are not available so the direct impact of this change is not known. Most natural gas consumed in agriculture is used to drive irrigation systems and to dry crops.

For the reporting of monthly data, the customer category will not be changed until 1998. In 1996, the monthly data reported under the old classification were adjusted to the annual data reported under the new classification. Monthly 1997 data will be adjusted in the same way as the 1996 data.

In comparing sectoral use over time, note that:

- There is an inherent shift in natural gas volumes from the commercial to industrial sectors due simply to changes in the reporting requirements. This break in series may indicate a spurious increase in industrial consumption with a corresponding decrease in the commercial sector.
- The sum of natural gas volumes consumed by the commercial and industrial sectors will not be changed by this modification of the instructions.

Electric Utility Sector Consumption

All Monthly Data

Monthly data published are from Form EIA-759.

Pipeline Fuel Consumption

Preliminary Monthly Data

Preliminary data are estimated based on the pipeline fuel consumption as an annual percentage of total consumption from the previous year's Form EIA-176. This percentage is applied to each month's total consumption figure to compute the monthly estimate.

Final Monthly Data

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are based on the revised annual ratio of pipeline fuel consumption to total consumption from the Form EIA-176. This ratio is applied to each month's revised total consumption figure to compute final monthly pipeline fuel consumption estimates.

Lease and Plant Fuel Consumption

Preliminary Monthly Data

Preliminary monthly data are estimated based on lease and plant fuel consumption as an annual percentage of marketed production. This percentage is applied to each month's marketed production figure to compute estimated lease and plant fuel consumption.

Final Monthly Data

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly plant fuel data are based on a revised annual ratio of lease and plant fuel consumption to marketed production from Form EIA-176. This ratio is applied to each month's revised marketed production figure to compute final monthly plant fuel consumption estimates. Final monthly lease data are collected on the Form EIA-627 and estimates from the Form EIA-176. See the *Natural Gas Annual* for a complete discussion of this process.

Note 6. Extraction Loss

Annual Data

Extraction loss data are calculated from filings of Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production." For a fuller discussion, see the *Natural Gas Annual*.

Preliminary Monthly Data

Preliminary data are estimated based on extraction loss as an annual percentage of marketed production. This percentage is applied to each month's marketed production to estimate monthly extraction loss.

Final Monthly Data

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are estimated by allocating annual extraction loss data to each month based on its total natural gas marketed production.

Note 7. Natural Gas Storage

Underground Natural Gas Storage

All monthly data concerning underground storage are published from the EIA-191. A new EIA-191 became effective in January 1994. Injection and withdrawal data from the EIA-191 survey are adjusted to correspond to data from Form EIA-176 following publication of the *Natural Gas Annual*.

Underground and Liquefied Natural Gas Storage

The final monthly and annual storage and withdrawal data for 1991 through 1995 shown in Table 2 include both underground and liquefied natural gas (LNG) storage. Underground storage data are obtained from the EIA-191 and EIA-176 surveys in the manner described earlier. Annual data on LNG additions and withdrawals are taken from Form EIA-176. Monthly data are estimated by computing the ratio of each month's underground storage additions and withdrawals to annual underground storage additions and withdrawals and applying it to annual LNG data.

Types of Underground Storage Facilities

There are three principal types of underground storage facilities in operation in the United States today: salt caverns (caverns hollowed out in salt "bed" or "dome" formations), depleted fields (depleted reservoirs in oil and/or gas fields), and aquifer reservoirs (water-only reservoirs conditioned to hold natural gas). A storage facility's daily deliverability or withdrawal capability

is the amount of gas that can be withdrawn from it in a 24-hour period. Salt cavern storage facilities generally have high deliverability because all of the working gas in a given facility can be withdrawn in a relatively short period of time. (A typical salt cavern cycle is 10 days to deplete working gas, and 20 days to refill working gas.) By contrast, depleted field and aquifer reservoirs are designed and operated to withdraw all working gas over the course of an entire heating season (about 150 days). Further, while both traditional and salt cavern facilities can be switched from withdrawal to injection operations during the heating season, this is usually more quickly and easily done in salt cavern facilities, reflecting their greater operational flexibility.

Note 8. Average Wellhead Value

Annual Data

Form EIA-895 requests State agencies to report the quantity and value of marketed production. When complete data are unavailable, the form instructs the State agency to report the available value and the quantity of marketed production associated with this value. A number of States reported volumes of production and associated values for other than marketed production. In addition, information for several States which were unable to provide data was obtained from Form EIA-176. It should be noted that Form EIA-176 reports a fraction of State production. The imputed value of marketed production in each State is calculated by dividing the State's reported value by its associated production. This unit price is then applied to the quantity of the State's marketed production to derive the imputed value of marketed production.

Preliminary Monthly Data

A preliminary estimate of the U.S. gas price is made each month based on the change in the production-weighted gas price from five States: Kansas, Mississippi, New Mexico, Oklahoma, and Texas. Gas prices for these five States are used because both their gas production and value represent a substantial sample of the U.S. gas production and value (roughly 50 percent), and their prices are readily available and provide a consistent series. The latest preliminary U.S. gas price estimate is calculated by multiplying the preliminary U.S. gas price estimate for the prior month by the ratio of the five States' gas price for the latest month to that

of the prior month. This estimate replaces the initial gas price estimate.

Final Monthly Data

Preliminary monthly gas price data for Kansas, Mississippi, New Mexico, Oklahoma, and Texas are replaced by final monthly data that are adjusted to match the annual prices published in the *Natural Gas Annual* for each State. A revised set of the monthly U.S. gas price estimates are derived based on the monthly change in the production-weighted prices for these five States and adjusted to match the U.S. gas price published in the Natural Gas Annual.

Note 9. Balancing Item

The "balancing item" category represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to quantities lost or to the effects of data reporting problems.

Reporting problems include differences due to the net result of conversions of flow data metered at varying temperatures and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycles and calendar periods; and imbalances resulting from the merger of data reporting systems, which vary in scope, format, definitions, and type of respondents.

Annual Data

Annual data are from the *Natural Gas Annual*. For an explanation of the methodology involved in calculating annual "balancing item" data, see the *Natural Gas Annual*.

Preliminary Monthly Data

Preliminary monthly data in the "balancing item" category are calculated by subtracting dry gas production, withdrawals from storage, supplemental gaseous fuels, and imports from total supply/disposition.

Note 10. Heating Degree-Days

Heating degree-days are relative measurements of outdoor air temperature. Heating degree-days are deviations of the mean daily temperature below 65 degrees Fahrenheit. A weather station recording a mean daily temperature of 40 degrees Fahrenheit would report 25 heating degree-days. There are several degree-day data bases maintained by the National Oceanic and Atmpospheric Administration. The information published in the Natural Gas Monthly is developed by the National Weather Service Climate Analysis Center, Camp Springs, Maryland.

The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations arond the country. The temperature information recorded at these weather stations is used to calculate Statewide degree-day averages weighted by gas home cutomers. The State figures are then aggregated into Census Divisions and into the national average.

Appendix B

Data Sources

The data in this publication are taken from survey reports authorized by the U.S. Department of Energy (DOE), Energy Information Administration (EIA) and by the Federal Energy Regulatory Commission (FERC). The EIA is the independent statistical and analytical agency within the DOE. The FERC is an independent regulatory commission within the DOE which has jurisdiction primarily in the regulation of electric utilities and the interstate natural gas industry. The EIA conducts and processes some of the surveys authorized by the FERC. Data are collected from two annual surveys and four monthly surveys.

The annual reports are the Form EIA-176, a mandatory survey of all companies that deliver natural gas to consumers or that transport gas across State lines, and the Form EIA-627, a voluntary survey completed by energy or conservation agencies in the gas-producing States.

The monthly reports include two surveys of the natural gas industry and two surveys of the electric utility industry. The natural gas industry survey is the Form EIA-191 filed by companies that operate underground storage facilities, and the Form EIA-857 filed by a sample of companies that deliver natural gas to consumers. The electric utility industry surveys are the Form EIA-759 filed by all generating electric utilities and the Form FERC-423 filed by fossil fueled plants. Responses to these four monthly surveys are mandatory.

A description of the survey respondents, reporting requirements, and processing and editing of the data is given on the following pages for each of the surveys.

Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"

Survey Design

The original version of Form EIA-176 was approved in 1980 with a mandatory response requirement. Prior to 1980, published data were based on voluntary responses to Bureau of Mines, U.S. Department of the Interior predecessor Forms BOM-6-1340-A and BOM-6-1341-A of the same title.

In 1982, the scope of the revised EIA-176 survey was expanded to collect the number of electric utility consumers in each State, volumes of gas transported to industrial and electric utility consumers, detailed information on volumes transported across State borders by the respondent for others and for the responding company, and detailed information on other disposition. These changes were incorporated to provide more complete survey information with a minimal change in respondent burden. The 1982 version of the Form EIA-176 continues to be the basis for the current version of this form.

In 1988, the Form EIA-176 was revised to include data collection for deliveries of natural gas to commercial and industrial consumers for the account of others. A short version of Form EIA-176 was also approved in 1988. Companies engaged in purchase and delivery activities but not in transportation and storage activities may file the short form. Usually, these companies are municipals handling small volumes of gas.

In 1990, the Form EIA-176 was revised to include more detailed information for gas withdrawn from storage facilities, gas added to storage facilities, deliveries of company-owned natural gas and natural gas transported for the account of others. The revised form was approved for use beginning with report year 1990.

Upon the Office of Management and Budget's approval in 1993, the Form EIA-176 was again revised. All deliveries to consumers are now categorized as firm or interruptible. Commercial and industrial consumers are further categorized as nonutility power producers or as those excluding nonutility power producers.

Data reported on this form are no longer considered proprietary. Response to the form continues to be mandatory.

Survey Universe and Response Statistics

The Form EIA-176 is mailed to all identified interstate and intrastate natural gas pipeline companies, investor and municipally owned natural gas distributors, underground natural gas storage operators, synthetic natural gas plant operators, and field, well, or processing plant operators that deliver natural gas directly to consumers (including their own industrial facilities) and/or that transport gas to, across, or from a State border through field or gathering facilities.

Each company and its parent company or subsidiaries were required to file if they met the survey specifications. The original mailing in 1996 for report year 1995 totaled 1,991 questionnaire packages. To this original mailing, 11 names were added and 61 were deleted as a result of the survey processing. Additions were the result of comparisons of the mailing list to other survey mailing lists. Deletions resulted from post office returns and determinations that companies were out of business, sold, or not within the scope of the survey. After all updates, the survey universe was 1,941 responses from approximately 1,800 companies.

Following the original mailing, second request mailing, and nonrespondents followup, 1,911 responses were entered into the data base, and there were 30 nonrespondents.

Summary of Form EIA-176 Data Reporting Requirements

The EIA-176 is a multiline schedule for reporting all supplies of natural gas and supplemental gaseous fuels

and their disposition within the State indicated. Respondents file completed forms with EIA in Washington, DC. Data for the report year are due by April 1 of the following year. Extensions of the filing deadline for up to 45 days are granted to any respondent on request.

All natural gas and supplemental gaseous fuels volumes are reported on a physical custody basis in thousand cubic feet (Mcf), and dollar values are reported to the nearest whole dollar. All volumes are reported at 14.73 pounds per square inch absolute pressure (psia) and 60 degrees Fahrenheit.

Routine Form EIA-176 Edit Checks

A series of manual and computerized edit checks are used to screen the Form EIA-176. The edits performed include validity, arithmetic, and analytical checks.

The incoming forms are reviewed prior to keying. This prescan determines if the respondent identification (ID) number and the company name and address are correct, if the data on the form appear complete and reasonable, and if the certifying information is complete.

Manual checks on the data are also made. Each form is prescanned to determine that data were reported on the correct lines. The flow of gas through interstate pipelines is checked at the company level to ensure that each delivery from a State is matched with a corresponding receipt in an adjoining State.

After the data are keyed, computer edit procedures are performed. Edit programs verify the report year, State code, and arithmetic totals. Further tests are made to ensure that all necessary data elements are present and that the data are reasonable and internally consistent. The computerized edit system produces error listings with messages for each failed edit test. When problems occur, respondents are contacted by telephone and required to file amended forms with corrected data.

Other EIA Publications Referencing Form EIA-176

Data from Form EIA-176 are also published in the *Natural Gas Annual.*

Form EIA-895, "Monthly Quantity of Natural Gas Report"

Survey Design

In 1996, an annual schedule was added to the Form EIA-895 to replace the Form EIA-627. Data collection on the Form EIA-895 began in January 1995. This form was designed to replace the Interstate Oil and Gas Compact Commission (IOGCC) form, "Monthly Report of Natural Gas Production." In 1994, the IOGCC decided to discontinue collection of their form. All gas producing States are requested to report on the Form EIA-895; a voluntary report. Data are reported by State agencies. The form was designed to provide a standard reporting system, to the extent possible, for the natural gas data reported by the States. Data are not considered proprietary.

Beginning with 1980, natural gas production data previously obtained on an informal basis from State conservation agencies were collected on Form EIA-627. This form was designed by EIA to collect annual natural gas production data from the appropriate State agencies under a standard data reporting system within the limits imposed by the diversity of data collection systems of the various producing States. The form was redesigned in 1990 to collect monthly breakdowns of all annual data elements. Data are not considered proprietary. It was also designed to avoid duplication of effort in collecting production and value data by producing States and to avoid an unnecessary respondent burden on gas and oil well operators. In 1993, value and associated volume of marketed production by month was added to the EIA-627. In 1996, the Form EIA-627 was discontinued. The information is collected on an annual schedule on the Form EIA-895.

Survey Universe and Response Statistics

Form EIA-895 is mailed to energy or conservation agencies in all 33 natural gas producing States. All producing States participate voluntarily in the EIA-895 survey by filing the completed form or by responding to telephone contacts.

Reports on State production are due 20 days after the end of the report month. (In most cases, the data are not available to the States until after this time period.

Therefore, States are requested to send the report within 80 days after the end of the report month.) The annual schedule of the Form EIA-895 is due with the December data report.

Summary of Data Requirements

The Form EIA-895 monthly schedule consists of nine questions on one page, and requires volumetric information on gross production (gas and oil wells individually), gas used for repressuring, gas vented and flared, nonhydrocarbon gases removed, natural gas used as fuel on leases, marketed production, value based marketed production and the value in dollar amount of the marketed production.

Form EIA-895 annual schedule collects data on the monthly and annual production volume of natural gas (including gross withdrawals from both gas and oil wells); volumes returned to formation for repressuring, pressure maintenance, and cycling; quantities vented and flared; quantities of nonhydrocarbon gases removed; quantities of fuel used on leases; marketed production; the value of marketed production; and the number of producing gas wells.

Respondents are asked to report all volumes in thousand cubic feet at the State's standard pressure base and at 60 degrees Fahrenheit. All dollar values are reported in thousands.

Routine Form EIA-895 Edit Checks

Each filing of Form EIA-895 is manually checked for reasonableness and mathematical accuracy. Information on the forms is compared to totals of monthly data reported. Volumes are converted, as necessary, to a standard 14.73 psia pressure base. Reasonableness of data is assessed by comparing reported data to the previous year's data. State agencies are contacted by telephone to correct errors. Amended filings or resubmissions are not a requirement, since participation in the survey is voluntary.

Other EIA Publications Referencing Form EIA-895

Data from Form EIA-895 are also published in the EIA publication, *Natural Gas Annual*.

EIA-191 Survey, "Underground Natural Gas Storage Report"

Survey Design

The Form EIA-191, "Underground Natural Gas Storage Report," was revised effective January 1994. Among the changes from the form used from 1991 through 1993 are a distinction between a monthly and annual survey. Prior to 1991, data on the storage of natural gas were collected on a survey jointly implemented in 1975 by the Federal Power Commission (FPC), the Federal Energy Administration (FEA), and the Bureau of Mines (BOM) as the FPC-8/FEA-G-318 system. The data received on both the FPC-8 and FEA-G-318 were computerized and aggregated by FPC. The form was previously revised in 1991 to include storage data by State, field, and reservoir.

At the beginning of 1979, the EIA assumed responsibility for the collection, processing, and publication of the data gathered in the survey. Form FEA-G-318 was renewed on July 1, 1979, as Form EIA-191 and the survey was retitled the FPC-8/EIA-191 Survey (Figure D4 shows the EIA-191). Form FPC-8 was renewed in December 1985 and the survey retitled FERC-8/EIA-191 Survey. The forms were not merged because of FERC's stated desire to maintain the separate identity of the FERC-8 for administrative reasons. In September 1995, the FERC discontinued the reporting requirements of Form FERC-8. FERC jurisdictional firms will continue to file Form EIA-191.

Survey Universe and Response Statistics

The 103 companies that operate underground facilities will file the Form EIA-191. Of these companies, 42 are subject to the jurisdiction of FERC and are required to report data on Form EIA-191.

The response rate as of the filing deadline is approximately 20 percent. Data from the remaining 80 percent of respondents are received in writing and/or by telephone within 3 to 4 days after the filing deadline. All data supplied by telephone are subsequently filed in writing, generally within 15 days of the filing deadline. The final response rate is 100 percent.

Summary of EIA-191 Data Reporting Requirements

The EIA-191 monthly schedule contains current month and prior month's data on the total quantities of gas in storage, injections and withdrawals, the location (including State and county, field, reservoir) and peak day

withdrawals during the reporting period. Prior month's data are required only when data are revised. Information on co-owners of storage fields has been eliminated. The annual schedule contains type of facility, storage field capacity, maximum deliverability and pipelines to which each field is connected. The annual schedule is filed with the January submission.

Collection of the survey is on a custody basis. Information requested must be provided within 20 days after the first day of each month. Twelve reports are required per calendar year. Respondents are required to indicate whether the data reported are actual or estimated. For most of the estimated filings, the actual data or necessary revisions are reflected in the prior month section of the monthly form. Actual data on natural gas injections and withdrawals from underground storage are based on metered quantities. Data on quantities of gas in storage and on storage capacity represent, in part, reservoir engineering evaluations. All volumes are reported at 14.73 psia and 60 degrees Fahrenheit.

Routine Form EIA-191 Edit Checks

Data received on Form EIA-191 are entered into the survey processing system. The survey's five principal data elements (total, base, working gas in storage, injections, and withdrawals) receive a preliminary visual edit to eliminate and correct obvious errors or omissions. Respondents are required to refile reports containing any inconsistencies or errors.

Other EIA Publications Referencing Form EIA-191

The EIA publication *Monthly Energy Review* and *Winter Fuels Report* contain data from the EIA-191 survey.

"Quarterly Natural Gas Import and Export Sales and Price Report"

Survey Design

The collection of data covering natural gas imports and exports was begun in 1973 by the Federal Power Commission (FPC). On October 1977, FPC ceased to exist and its data collection functions were transferred to the Federal Energy Regulatory Commission (FERC) within the Department of Energy (DOE). From 1979 to 1994, the Energy Information Administration (EIA) has had the responsibility for collecting Form FPC-14, "Annual Report for Importers and Exporters of Natural

Gas." Data are not considered proprietary. The Form FPC-14 was discontinued in 1995.

Beginning in 1995, import and export data are taken from the "Quarterly Natural Gas Import and Export Sales and Price Report." This report is prepared by the Office of Fossil Energy, U.S. Department of Energy, based on information submitted by all firms having authorization to import or export natural gas.

Survey Universe and Response Statistics

All companies are required, as a condition of their authorizations to import or export natural gas, to file quarterly reports with the Office of Fossil Energy. These data are collected as part of its regulatory responsibilities. The data are reported at a monthly level of detail. Data reported on the Form FPC-14 represented physical movements of natural gas. Data collected by the Office of Fossil Energy are reported on an equity (sales) basis. For 1994 and earlier years, comparisons of the data from the two sources may show differences because reporting requirements were different.

Prior to 1995, the Form FPC-14 was filed annually by each organization or individual having authority to import and export natural gas regardless of whether any activity took place during the reporting year. Authorizations to import and export was originally granted by the FPC. In 1977, the authority to grant authorizations transferred to the Economic Regulatory Administration (ERA). It now resides with the Office of Fossil Energy, U.S. Department of Energy.

Routine Edit Checks

Respondents are required to certify the accuracy of all data reported. The data are checked for reasonableness and accuracy. If errors are found, the companies are required to file corrected data. The data are compared with data reported by the National Energy Board of Canada and are published quarterly. All natural gas volumes in this report are expressed at a pressure base of 14.73 pounds per square inch absolute and temperature of 60 degrees Fahrenheit, except as noted. All import and export prices are in U.S. dollars and, except for LNG exports, are those paid at the U.S. border. LNG export prices are those paid at the point of sale and delivery in Yokohama, Japan.

Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"

Survey Design

The original Form EIA-857 was approved for use in December 1984. Response to the Form EIA-857 is mandatory on a monthly basis. Data collected on the Form EIA-857 cover the 50 States and the District of Columbia and include both price and volume data. Data are considered proprietary.

Survey Universe and Response Statistics

A sample of 382 natural gas companies, including interstate pipelines, intrastate pipelines, and local distribution companies, report to the survey. The sample was selected independently for each of the 50 States and the District of Columbia from a frame consisting of all respondents to Form EIA-176 who reported deliveries of natural gas to consumers in the residential, commercial, or industrial sectors. Each selected company is required to complete and file the Form EIA-857 on a monthly basis. Initial response statistics on a monthly basis are as follows: responses received by due date, approximately 50 percent, and responses received after follow-up, 100 percent. Virtually all are received in time for incorporation in the current month's processing cycle. When a response is extremely late, and the company represents less than 25 percent of the natural gas volumes delivered by all sampled companies in the State, values are imputed as described in Appendix C. When the company's submission is eventually received, the submitted data are used for future processing and revisions.

The Form EIA-857 is a monthly sample survey of firms delivering natural gas to consumers. It provides data that are used to estimate monthly sales of natural gas (volume and price) by State and monthly deliveries of natural gas on behalf of others (volume) by State to three consumer sectors - residential, commercial, and industrial. (Monthly deliveries and prices of natural gas to electric utilities are reported on the Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and the Form EIA-759, "Monthly Power Plant Report.") See Appendix C for a discussion of the sample design and estimation procedures.

Summary of Form EIA-857 Data Reporting Requirements

Data collected monthly on the Form EIA-857 on a State level include the volume and cost of purchased gas, the volume and cost of natural gas consumed by sector (residential, commercial, and industrial), and the average heat content of all gas consumed. Respondents file completed forms with EIA in Washington, DC on or before the 30th day after the end of the report month.

All natural gas volumes are reported in thousand cubic feet at 14.73 psia at 60 degrees Fahrenheit and dollar values are reported to the nearest whole dollar.

Routine Form EIA-857 Edit Checks

A series of manual and computerized edit checks are used to screen the Form EIA-857. The edits performed include validity and analytical checks.

Appendix C

Statistical Considerations

The monthly sales (volume and price) and monthly deliveries (volume) of natural gas to residential, commercial and industrial consumers presented in this report by State are estimated from data reported on the Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers." (See Appendix B for a description of this Form.) These estimations must be made from the reported data since the Form EIA-857 is a sample survey. A description of the sample design and the estimation procedures is given below.

Sample Design

The Form EIA-857 is a monthly sample survey of companies delivering natural gas to consumers. It includes inter- and intrastate companies, and producers, as well as local distribution companies. The survey provides data that are used each month to estimate the volume of natural gas delivered and the price for onsystem sales of natural gas by State to three consumer sectors-residential, commercial, and industrial. Monthly deliveries and prices of natural gas to electric utilities are reported on the Form EIA-759, "Monthly Power Plant Report," and the Form FERC-423, "Monthly Report of Costs and Quality of Fuels for Electric Plants."

Sample Universe. The sample currently in use was selected from a universe of 1,538 companies. These companies were respondents to the Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," for reporting year 1995 who reported sales or deliveries to consumers in the residential, commercial or industrial sectors. (See Appendix B for a description of the Form EIA-176.)

Sampling Plan. The goal was a sample that would provide estimates of monthly natural gas consumption by the three consuming sectors within each State and the District of Columbia. A stratified sample using a single stage and systematic selection with probability

proportional to size was designed. The measure of size was the volume of natural gas physically delivered in the State to the three consuming sectors by the company in 1995. There were two strata--companies selected with certainty and companies selected under the systematic probability proportional to size design.

Initial calculations showed that a 25 percent sample of companies would yield reasonably accurate estimates. The sample was selected independently in each State, resulting in a national total of 387 respondent companies. Unlike previous years, no mergers or acquisitions were uncovered as a result of the initial mail-out. Therefore there was no need for either substitution of respondent companies or a reduction in the total number of respondents.

Certainty Stratum. Since estimates were needed for each of the 50 States and the District of Columbia, the strata were established independently within each State. In 16 States and the District of Columbia where sampling was not feasible due to small numbers of companies and/or small volumes of gas deliveries, all companies were selected. The 16 States were: Alaska, Connecticut, Delaware, Hawaii, Idaho, Maine, North Dakota, New Hampshire, New Jersey, Nevada, Oregon, Rhode Island, South Dakota, Utah, Vermont, and Washington.

For each of the remaining States, the total volumes of industrial sales and deliveries and of the combined residential/commercial sales and deliveries were determined. Companies with natural gas deliveries to the industrial sector or to the combined residential/commercial sector above a certain level were se lected with certainty. Since a few large companies often account for most of the natural gas delivered within a State, this ensures those companies' inclusion in the sample. The formula for determining certainty was applied independently in the two consumer sectors—the industrial and the combined residential/com mercial. These selected companies, together with the companies in the jurisdictions discussed where sampling was not feasible, formed the certainty stratum.

All companies with natural gas deliveries in sector j greater than the cut-off value $(C_{.j})$ were included in the certainty stratum. The formula for $C_{.j}$ was:

$$C_{.j} = \frac{X_{.j}}{2n} \tag{1}$$

where:

 C_{i} = cutoff value for consumer sector j,

n = target sample size to be selected for the State, 25 percent of the companies in the State,

 X_{ij} = the annual volume of natural gas deliveries by company i to customers in consumer sector j,

 X_i = the sum within State of annual gas volumes for company i,

 X_{j} = the sum within State of annual gas volumes in consumer sector j,

X.. = the sum within State of annual gas volumes in all consumer sectors.

Noncertainty Stratum. All other companies formed the noncertainty stratum. They were systematically sampled with probability proportional to size. The measure of size for each company was the total volume of gas sales to all consumer sectors ($X_{i.}$). The number of companies to be selected from the noncertainty stratum was calculated for each State, with a minimum of 2.

The formula for selecting the number of noncertainty stratum companies was:

$$m = n \frac{X2}{X..} \tag{2}$$

where:

m = the sample size for the noncertainty stratum within a State,

X2 = the sum within State of the X_i for all companies in the noncertainty stratum.

Companies were listed in ascending order according to their measure of size and then a cumulative measure of size in the stratum was calculated for each company. The cumulative measure of size was the sum of the measures of size for that company and all preceding companies on the list. An interval of width I for selecting the companies systematically was calculated using

 $(I = \frac{X2}{m})$. A uniform random number R was selected

between zero and I. The first sampled company was

the first company on the list to have a cumulative measure of size greater than R. The second company selected was the first company on the list to have a cumulative measure of size greater than R+I. R+I was increased again by I to determine the third company to be selected. This procedure was repeated until the entire sample was drawn.

Subgroups. In eight States, the noncertainty stratum was divided into subgroups to ensure that gas in each consumer sector could be estimated. The systematic sample with probability proportional to size design described above was applied independently in each subgroup. The methods for determining the subgroup sample size and calculating the subgroup interval for sample selection were the same as the methods described above for the noncertainty stratum, except that X^2 was the sum within State of the X_i for only those companies in the subgroup.

These subgroups were defined only for the purpose of sample selection. They are:

California: companies handling only industrial gas and all other companies.

Iowa: companies handling industrial gas and companies delivering only to residential or commercial customers.

Louisiana: companies handling only industrial gas and all other companies, with the latter being further subdivided according to size. The larger group is comprised of all companies with total deliveries of at least 200 million cubic feet while the smaller group consists of companies with less than that volume of delivered gas (three subgroups).

Oklahoma: Companies delivering less than 500 million cubic feet of gas and those delivering more than that volume.

Texas: companies handling only residential/commercial gas, companies handling only industrial gas, and all other companies (three subgroups).

Estimation Procedures

Estimates of Volumes. A ratio estimator is applied to the volumes reported in each State by the sampled companies to estimate the total gas sales and deliveries for the State. Ratio estimators are calculated for each consumer sector—residential, commercial, and industrial—in each State where companies are sampled.

The following annual data are taken from the most recent 1995 submissions of Form EIA-176:

The formula for calculating the ratio estimator $(E_{\nu j})$ for the volume of gas in consumer sector j is:

$$E_{\nu j} = \frac{Y_j}{Y'_j} \tag{3}$$

where:

 $Y_{,j}$ = the sum within State of annual gas volumes in consumer sector j for all companies,

 Y'_{j} = the sum within State of annual gas volumes in consumer sector j for those companies in the sample. The ratio estimator is applied as follows:

$$V_j = y_{.j} \times E_{vj} \tag{4}$$

where:

 V_j = the State estimate of monthly gas volumes in consumer sector j,

 y_{j} = the sum within State of reported monthly gas volumes in consumer sector j.

Computation of Natural Gas Prices. The natural gas volumes that are included in the computation of prices represent only those volumes associated with natural gas sales.

The price of natural gas for a State within a sector is calculated as follows:

$$P_j = \frac{R_j}{V'_i}$$

where:

 P_j = the average price for gas sales within the State in consumer sector j,

 R_j = the reported revenue from natural gas sales within the State in consumer sector j,

 V_j = the reported volume of natural gas sales within the State in consumer sector j.

All average prices are weighted by their corresponding sales volume estimates when national average prices are computed.

The monthly average prices of natural gas are based on sales data only. Volumes of gas delivered for the account of others to these consumer sectors are not included in the State or national average prices.

Table 25 shows the percent of the total State volume that represents volumes from natural gas sales to the commercial and industrial sectors. This table may be helpful in evaluating commercial and industrial price data. Virtually all natural gas deliveries to the residential sector represent onsystem sales volumes only.

See the section on consumer price calculations in this Appendix for further price information.

Estimation for Nonrespondents. A volume for each consumer category is imputed for companies that fail to respond. The imputation is based on the previous month's value reported by the non-responding company and the change from the previous month to the current month in volumes reported by other companies in the State. The imputed volumes are included in the State totals. To estimate prices for non-respondents, the unit price (dollars per thousand cubic feet) reported by the company in the previous month is used.

The formula for imputing volumes of gas sales for nonrespondents was:

$$F_{t} = F_{t-1} \times \frac{y_{.jt}}{y_{.jt-1}}$$
 (5)

where:

 F_t = imputed gas volume for current month t,

 F_{t-1} = gas volume for the company for the previous month,

 y_{jt} = gas volume reported by companies in the State stratum for report month t,

 $y_{ij}t-1$ = gas volume in the previous month for companies in the State stratum that reported in month t.

Final Revisions

Adjusting Monthly Data to Annual Data. After the annual data reported on the Form EIA-176 have been submitted, edited, and prepared for publication in the *Natural Gas Annual*, revisions are made to monthly data. The revisions are made to the volumes and prices of natural gas delivered to consumers that have appeared in the *Natural Gas Monthly* to match them to the annual values appearing in the *Natural Gas Annual*.

The revised monthly estimates allocate the difference between the sum of monthly estimates and the annual reports according to the distribution of the estimated values across the months.

Before the final revisions are made, changes or additions to submitted data received after publication of the monthly estimate and not sufficiently large to require a revision to be published in the *Natural Gas Monthly*, are used to derive an updated estimate of monthly consumption and revenues for each State's residential, commercial, or industrial natural gas consumption.

For each State, two numbers are revised, the estimated consumption and the estimated price per thousand cubic feet.

The formula for revising the estimated consumption is:

$$V_{jm}^* = V_{jm} + \left[(V_{ja} - V'_{jm}) (\frac{V_{jm}}{V'_{jm}}) \right]$$
 (6)

where

 V_{jm}^* = the final volume estimate for month m in consumer sector j,

 V_{jm} = the estimated volume for month m in consumer sector i.

 V_{ja} = the volume for the year reported on Form EIA-176.

 V'_{jm} = The annual sum of estimated monthly volumes.

The price is calculated as described above in the Estimation Procedures section, using the final revised consumption estimate and a revised revenue estimate. The formula for revising the estimated revenue is:

$$R_{jm}^* = R_{jm} + \left[(R_{ja} - R'_{jm}) (\frac{R_{jm}}{R'_{jm}}) \right]$$
 (7)

where:

 R_{jm}^* = the final revenue estimate for month m in consumer sector j,

 R_{jm} = the estimated revenue for month m in consumer sector j,

 R_{ja} = the revenue for the year reported on Form EIA-176.

 R'_{jm} = The annual sum of estimated monthly revenues. Revision of Volumes and Prices for Deliveries to Electric Utilities. Revisions to monthly electric utilities data are published throughout the year as they become available.

Reliability of Monthly Data

The monthly data published in this report are subject to two sources of error - nonsampling error and sampling error. Nonsampling errors occur in the collection

and processing of the data. See the discussion of the Form EIA-857 in Appendix B for a description of non-sampling errors for monthly data.

Sampling error may be defined as the difference between the results obtained from a sample and the results that a complete enumeration would provide. The standard error statistic is a measurement of sampling error.

Standard Errors. A standard error of an estimate is a statistical measure that indicates how the estimate from the sample compares to the result from a complete enumeration. Standard errors are calculated based on statistical theory that refers to all possible samples of the same size and design.

The standard errors for monthly natural gas volume estimates by State are given in Table C1. Ninety-five percent of the time, the volume that would have been obtained from a complete enumeration will lie in the range between the estimated volume minus two standard errors and the estimated volume plus two standard errors.

The standard error of the natural gas volume estimate is the square root of the variance of the estimate. The formula for calculating the variance of the volume estimate is:

$$V(\hat{Y}) = \sum_{h=1}^{H} \left[N_h^2 \frac{\left(1 - \frac{n_h}{N_h}\right)}{n_h (n_h - 1)} \left(\sum_{i=1}^{H} \left(y_i - Tx_i \right)^2 \right) \right]$$
(8)

H =the total number of strata

 N_h = the total number of companies in stratum h n_h = the sample size in stratum h

 y_i = the reported monthly volume for company i

 x_i = the reported annual volume for company i

T = the ratio of the sum of the reported monthly volumes for sample companies to the sum of the reported annual volumes for the sample companies.

Table C-1. Standard Error for Natural Gas Deliveries and Price to Consumers by State, September 1998

State		Volu Million Cu		Price Dollars per Thousand Cubic Feet			
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama	159	97	2,449	2,456	0.56	0.28	1.77
Alaska	0	0	NA NA	NA NA	_	-	NA
Arizona	13	95	0	96	0.23	0.06	
Arkansas	0	0	0	0	-	_	_
California	225	417	4,946	4,968	0.06	0.07	0.32
Colorado	367	472	752	961	6.81	0.51	1.61
Connecticut	0	0	0	0	_	-	-
Delaware	Ö	0	Õ	Õ	_	_	_
District of Columbia	Ö	0	0	0	_	_	_
lorida	232	442	1,658	1,732	4.28	0.92	0.29
Seorgia	76	113	5,490	5,492	0.43	0.79	2.92
lawaii	0	0	0	0	_	_	_
daho	0	0	0	0	_	_	_
linois	591	1,530	2,597	3,072	0.89	2.34	0.36
ndiana	NA	ŃA	ŃA	ŃA	NA	NA	NA
owa	45	497	156	522	0.80	0.42	0.21
ansas	2,638	5,076	18,793	19,645	2.61	0.98	3.60
Centucky	389	542	395	776	3.28	3.76	3.63
ouisiana	109	80	2,243	2,247	0.24	0.31	0.02
faine	0	0	0	0	_	_	_
1aryland	NA	NA	NA	NA	NA	NA	NA
Massachusetts	NA	NA	NA	NA	NA	NA	NA
lichigan	0	0	0	0			
finnesota	210	196	3,527	3,539	0.15	0.09	0.30
fississippi	NA NA	NA NA	2,269	NA	NA NA	NA NA	0.35
Missouri	292	121	725	791	0.03	0.24	2.64
Montana	2	4	0	4	0.02	0.08	_
lebraska	15	12	490	491	0.22	0.14	0.25
levada	0	0	0	0	_	_	_
lew Hampshire	0	0	0	0	_	_	_
lew Jersey	NA	NA	NA	NA	NA	NA	NA
lew Mexico	36	140	588	605	0.45	1.25	
lew York	NA	NA	NA	NA	NA	NA	NA
lorth Carolina	61	114	200	238	0.01	0.02	0.25
lorth Dakota	0	0	0	0	_	_	_
Ohio	96	208	947	974	0.49	0.10	0.37
Oklahoma	166	156	22	229	0.45	0.03	1.06
Pregon	0	0	0	0	_	_	_
ennsylvania	NA	165	471	NA	NA	0.27	0.04
thode Island	0	0	0	0	_	_	_
outh Carolina	84	108	406	429	1.14	0.33	0.14
South Dakota	0	0	0	0	_	_	_
ennessee	338	974	2,074	2,316	2.55	2.90	2.10
exas	76	1,560	9,091	9,224	0.04	0.31	0.19
tah	0	0	0	0	_	_	_
/ermont	0	0	0	0	_	_	_
/irginia	24 NA	243 NA	437 NA	500 NA	0.29	0.18	0.57
Vashington	NA NA				NA NA	NA	NA NA
Vest Virginia		1,068	NA	NA	NA	12.68	NA
Visconsin	2,143	5,824	4,923	7,922	0.21	0.39	0.50
Vyoming	8	51	46	69	0.38	0.34	1.22
Total	3,574	8,417	24,070	25,749	0.25	0.18	0.27

Na = Not Available.
 = Not Applicable.
 Source: Energy Information Administration, Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Appendix D

Natural Gas Reports and Feature Articles

Reports Dealing Principally with Natural Gas and/or Natural Gas Liquids

- Natural Gas Annual 1995, DOE/EIA-0131(95), November 1996.
- Natural Gas Annual 1993 Supplement: Company Profiles, DOE/EIA-0131(93/S), February 1995.
- Natural Gas 1996 Issues and Trends, DOE 0560(96), December 1996.

Other Reports Covering Natural Gas, Natural Gas Liquids, and Other Energy Sources

- Monthly Energy Review, DOE/EIA-0035. Published monthly. Provides national aggregate data for natural gas, natural gas liquids, and other energy sources.
- Short-Term Energy Outlook, DOE/EIA-0202. Published quarterly. Provides forecasts for next six quarters for natural gas and other energy sources.
- Natural Gas 1995: Issues and Trends, DOE/EIA-0560(95). November 1995.
- U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves - 1995 Annual Report, DOE/EIA-0216(95)/Advance Summary, October 1996.
- Annual Energy Review 1995, DOE/ EIA-0384(95), July 1996. Published annually.
- Annual Report to Congress 1995 DOE/ EIA-01733(95), July 1996. Published annually.
- Annual Energy Outlook 1996, DOE/ EIA-0383(96), January 1996. Published annually.

Selected One-Time Natural Gas and Related Reports

- The Value of Underground Storage in Today's Natural Gas Industry, DOE/EIA-0591, March 1995.
- Natural Gas Productive Capacity for the Lower 48 States, 1980 through 1995, DOE/EIA-0542(95), July 1994
- Largest U.S. Oil and Gas Fields, DOE/EIA-TR-0567, August 1993.
- Energy Policy Act Transportation Rate Study, DOE/EIA-0571, October 1993.
- Energy Policy Act Transportation Study: Interim Report of Natural Gas Flows and Rates, DOE/EIA-0602, October 1995.

Selected and Recurring Natural Gas and Related Data Reference Reports

- Directory of Energy Data Collection Forms, DOE/EIA-0249(95), January 1996.
- Oil and Gas Field Code Master List, 1995, EIA-0370(95), December 1996.

Feature Articles

June 1996

Natural Gas Industry Restructuring and Data Collection

(Discusses how restructuring of the natural gas industry has impacted the natural gas data collection efforts.)

July 1996

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

November 1996

U.S. Natural Gas Imports and Exports - 1995

(Contains final 1995 data on all U.S. imports and exports of natural gas.)

December 1996

Crosswell Seismology -- A View from Aside

(Discusses crosswell seismology and its geologic and economic implications for the domestic oil and gas industry.)

May 1997

Restructuring Energy Industries: Lessons from Natural Gas

(Compares and contrasts the natural gas and electric power industries.)

July 1997

Intricate Puzzle of Oil and Gas "Reserves Growth"

(Discusses the factors that affect ultimate recovery estimates of a field or reservoir.)

August 1997

Natural gas Residential Pricing Developments During the 1996-97 Winter

(Discusses key factors that affect pricing patterns, highlights the effects of weather, utilization patterns of natural gas storage, and pricing mechanisms used in natural gas markets.)

December 1997

Recent Trends in Natural Gas Spot Prices

(Focuses primarily on conditions and developments in the East Consuming Region and their connection to prices at the Henry Hub in the Producing Region.)

March 1998

EIA Corrects Errors in EIA's Drilling Activity Estimates Series

(Discusses and corrects errors in EIA's monthly and annual estimates of oil and gas drilling activity.)

Special Focuses

January 1997

Natural Gas Productive Capacity

(Analyzes monthly natural gas wellhead productive capacity in the lower 48 States from 1985 and 1996 and project this capacity for 1996 and 1997.)

Outlook for Natural Gas Through 2015

(Presents an outlook for natural gas through 2015.)

August 1997

Worldwide Natural Gas Supply and Demand And the Outlook For Global LNG Trade

(Focuses on natural gas into the next century with emphasis on world natural gas supply and demand to 2015.)

September 1997

Advance Summary: U.S. Crude Oil, Natural Gas, and Natural gas Liquids Reserves, 1996 Annual Report -Advance Summary

(Focuses on proved reserves of domestic crude oil, natural gas, and natural gas liquids.)

May 1998

Deliverability on the Interstate Natural Gas Pipeline System

(Examines the capability of the interstate pipeline network to move gas to various U.S. markets and discusses changes occurring since 1990.)

Special Reports

March 1997

Natural Gas Analysis and Geographic Information Systems

(Explores how geographic information system techniques and methodologies are being used by the Energy Information Administration.)

April 1997

Natural Gas Pipeline and System Expansions

(Examines recent expansions to the North American natural gas

Natural Gas 1996: Highlights

(Reviews data for 1996 based on Energy Information Administration surveys.) pipeline network.)

July 1997

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

August 1997

U.S. Natural gas Imports and Exports - 1996

(Contains final 1996 data on all U.S. imports and exports of natural gas.)

September 1997

U.S. Underground Storage of Natural Gas in 1997: Existing and Proposed

(Examines recent and proposed expansions of underground natural gas storage capacity and deliverability in the United States as of September 1, 1997.)

October 1997

Comparison of Natural Gas Storage Estimates from the EIA and AGA

(Compares EIA and AGA estimates from January 1994 through July 1997.)

April 1998

Natural Gas 1997: A Preliminary Summary

(Reviews data for 1997 based on Energy Information Administration surveys.)

July 1998

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

August 1998

U.S. Natural Gas Imports and Exports - 1997

(Contains final 1997 data on all U.S. imports and exports of natural gas.)

Appendix E

Technical Contacts

Section	Tables		Principal Data Sources	Technical Contact
Summary Statistics: Natural Gas Production	1, 2, 3	Monthly: Annual:	EIA-895, "Monthly Quantity of Natural Gas Report"	Sharon Belcher (202) 586-6119
		Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202) 586-4790
Extraction Loss	1	Monthly: Annual:	EIA computations Form EIA-816, "Monthly Natural Gas Liquids Report" and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production"	Margo Natof (202) 586-6303
Supplemental Gaseous Fuels	2	Monthly: Annual:	EIA computations Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"	Margo Natof (202) 586-6303
Imports and Exports	2	Monthly: Annual:	EIA computations Office of Fossil Energy, U.S. Department of Energy, "Natural Gas Import and Exports"	Linda Cook (202) 586-6306
Price:				
City Gate, Residential, Commercial, and Industrial	4	Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202) 586-4790
Wellhead	4	Monthly: Annual:	EIA computations Form EIA-895, "Monthly Quantity and Value of Natural Gas Report"	Sylvia Norris (202) 586-6106
Electric Utility	4	Monthly:	Form FPC-423, "Cost and Quality of Fuels for Electric Power Plants"	Roy Kass (202) 586-4790
Summary of Natural Gas Imports and Exports Producer Related Activities:	5,6	Monthly:	Quaterly Natural Gas Import and and Export Sales and Price Report	Linda Cook (202) 586-6306
Natural Gas Production	7,8	Monthly:	EIA-895, "Monthly Quantity of Natural Gas Report"	Sharon Belcher (202) 586-6119

Underground Storage:	9, 10, 11 12, 13, 14	Monthly:	Forms FERC-8 and EIA-191, "Underground Gas Storage Report"	Carol Jones (202) 586-6168
Distribution and Consumption:				
Deliveries to:				
Residential,	15	Monthly:	Form EIA-857, "Monthly Report of	Roy Kass
Commercial,	16		Natural Gas Purchases and Deliveries	(202) 586-4790
Industrial,	17		to Consumers"	
Electric Utility,	18		Form FERC-423, "Cost and Quality	
All Consumers	19		of Fuels for Electric Power Plants"	
Average Price to:				
City Gate,	20	Monthly:	Form EIA-857, "Monthly Report of	Roy Kass
Residential,	21		Natural Gas Purchases and Deliveries	(202) 586-4790
Commercial,	22		to Consumers"	
Industrial,	23		Form FERC-423, "Cost and Quality	
Electric Utility	24		of Fuels for Electric Power Plants"	
Onsystem Sales	25	Monthly:	Form EIA-857, "Monthly Report of	Roy Kass
			Natural Gas Purchases and Deliveries to Consumers"	(202) 586-4790
Heating Degree Days	26	Seasonal:	National Oceanic and Atmospheric	Patricia Wells
			Administration	(202) 586-6077
Highlights				
				Mary Carlson
				(202) 586-4749

Appendix F

Natural Gas Electronic Products

In addition to printed publications, the Energy Information Administration distributes information concerning the natural gas industry in a variety of electronic formats through several media. Two main types of products are available electronically: *viewable documents* that may be read or printed; and *post-processable files* that may be directly used as input to a computer application without additional keying and checking of data.

Viewable documents represent complete or selected sections of publications including text, tables and graphs. They may be as specific as single tables or as general as an entire publication. Post-processable documents on the other hand are either macro-level representations of information in published tables or micro-level respondent information representing responses on a specific nonconfidential survey.

The media used to distribute these electronic publications include: (1) The Energy Information Administration's Internet site (http://www.eia.doe.gov or ftp://ftp.eia.doe.gov); (2) Dial-in access through the Energy Information Administration's EPUB electronic bulletin board or through the Economic Bulletin Board of the Department of Commerce and the COGIS system; (3) The Energy Information Administration's quarterly CD-ROM(Info-Disk); (4) The Energy Information Admi- nistration's Fax on Demand System; and (5) diskettes.

	Internet	Dial-In	Infodisk	E-Mail	Diskette
ANNUAL PUBLIC	CATIONS				
Natural Gas Annual, 1997 Provides information on supply and disposition of natural gas in the United States. Information is provided nationally, regionally, and by State for 1997.	V P		V P		Р
Historical Natural Gas Annual, 1930 through 1997 Contains historical information about supply and disposition of natural gas at the national, regional, and State level, as well as prices at selected points in the flow of gas from wellhead to burnertip.	P		Р		Р
Natural Gas 1996: Issues and Trends Examines how industry restructuring continues to expand choices, and challenges, for industry, participants, and natural gas customers.	V		V		
Natural Gas 1995: Issues and Trends Addresses current issues affecting the natural gas industry and markets, and analyzes trends in the most recent natural gas data.	V		V		
Natural Gas 1994: Issues and Trends Provides an overview of the natural gas industry in 1993 and early 1994, focusing on the overall ability to deliver gas under the new regulatory mandates of the Federal Energy Regulatory Commission's Order 636.	V		V		
U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves Annual Report, 1996 1996 national and State estimates of reserves, reserve changes, and production, plus industry highlights.	V		V		

	Internet	Dial-In	Infodisk	E-Mail	Diskette
Natural Gas Productive Capacity for the Lower 48 States 1986-1998 Analysis of monthly natural gas wellhead productive capacity.	V		V		
MONTHLY PUBLIC	ATIONS				
Natural Gas Monthly, from the previous 12 months Entire Publication in viewable format.	V		V		
OTHER PUBLICA	ATIONS				
Natural Gas Weekly Market Update Analysis of current price, supply and storage data along with a two week snapshot of the weather in four distinct metropolitan areas.	V				
Deliverability on the Interstate Natural Pipeline System This publication chronicles and analyzes pipeline growth from the perspective of the natural gas shipper and pipeline transporter.	V				
Natural Gas 1997: Preliminary Highlights This Special Focus, which was featured in the April 1998 issue of the Natural Gas Monthly, presents events that affected the natural gas industry during 1997.	V	Р			
Energy Policy Act Transportation Study: Interim Report on Natural Gas Flow and Rates (EPACT) Analysis of natural gas transportation rates and distribution patterns for the period 1988 through 1994.	V		V		
Oil Production Capacity Extension Cost for the Persian Gulf Quantifies the cost of expanding oil production capacity for the Persian Gulf based on geologic plays and fields rather than country-level economics. Development costs and volumes are estimated for the next 15 years.	V		V		
Costs and Indices for Domestic Oil and Gas Fields Equipment and Production Operations 1993-1996 Cost of equipment and operation of oil and gas wells in the lower 48 States.	V		V		
Drilling Sideways- A Review of Horizontal Well Technology and the Domestic Application Salient aspects of current and near-future horizontal drilling and completion technology.	V		V		
International Oil and Gas Exploration and Development Compilation of country-level data and assessment of regional trends relating to upstream aspects of global oil and gas supply.	V		V		
Oil and Gas Field Code Master List Comprehensive listing of U.S. oil and gas field names as of October 1997.	V		V		
Oil and Gas Resources of the Fergana Basin (Uzbekistan, Tadzhikistan, and Kyrgysztan) Reservoir level assessments of oil and gas ultimate recovery in the former Soviet Union area.	V		V		

	Internet	Dial- i n	InfoDisk	E-Mail	Diskette
The Value of Underground Storage in Today's Natural Gas Industry. Explores the significant and changing role of storage in the industry.	V		V		
U.S. Oil and Gas Development in the Early 1900's Analyses of the growing prominence of smaller energy companies in U.S. oil and gas production	V		V		
ANNUAL	DATA	1	•	•	-
Natural Gas Supply and Disposition, by State 1997	V P	V P			
Natural Gas Summary, United States by Year 1990-1997	V P	V P			
Natural Gas Annual 1997 data Self-extracting file containing data (in comma-delimited format) that appear in the tables in the 1997 Natural Gas Annual.	Р		Р		P
Historical Natural Gas Annual 1997 data Self-extracting file containing historical information (in comma-delimited format) found in the tables in Volume 2 of the 1997 Natural Gas Annual. Annual historical data at the national level are presented for 1930-1997. Annual information by State and region is presented for 1967-1997.	Р		Р		P
1997 Data reported on Form EIA-176 A self-extracting compressed file containing data reported on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," for 1997.	Р				Р
1996 Data reported on Form EIA-176 A self-extracting compressed file containing data reported on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," for 1996.	Р				Р
Data archive of historical reserves estimates for U.S. Crude Oil, Natural Gas, and Natural Gas Liquids National, State, and State subregion data published in the reserves balance tables of U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves from 1977 forward.	Р				P
MONTHL	Y DATA	•	•	•	•
Natural Gas Production, United States by Month 1989-forward	Р	Р			
Natural Gas Supply and Disposition 1989-forward	Р	Р		Е	
Natural Gas Imports and Exports 1989-forward	Р	Р			
Natural Gas Underground Storage: United States Total by Month 1989-forward	Р	Р		Е	
Natural Gas Prices: United States Total by Month 1989-forward	Р	Р		Е	
Natural Gas Consumption by Sector: United States Total by Month 1989-forward	Р	Р		Е	
SELF-EXTRACTING COMPRE	SSED DATA	FILE ARCH	HIVES	1	1
Natural Gas Consumption and Prices, for most recent 2-3 years	Р	Р			
Natural Gas Consumption and Prices, for 1984-1995	Р	Р			

Glossary

Balancing Item: Represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to quantities lost or to the effects of data reporting problems. Reporting problems include differences due to the net result of conversions of flow data metered at varying temperature and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycle and calendar period time frames; and imbalances resulting from the merger of data reporting systems which vary in scope, format, definitions, and type of respondents.

Base (Cushion) Gas: The volume of gas needed as a permanent inventory to maintain adequate underground storage reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

British Thermal Unit (Btu): The heat required to raise the termperature of one pound of water by one degree Fahrenheit at or near 39.2 degrees Fahrenheit.

City-gate: A point or measuring station at which a gas distribution company receives gas from a pipeline company or transmission system.

Commercial Consumption: Gas used by nonmanufacturing organizations such as hotels, restaurants, retail stores, laundries, and other service enterprises, and gas used by local, State, and Federal agencies engaged in nonmanufacturing activities.

Depletion: The loss in service value incurred in connection with the exhaustion of the natural gas reserves in the course of service.

Depreciation: The loss in service value not restored by current maintenance, incurred in connection with the consumption or respective retirement of a gas plant in the course of service from causes that are known to be in current operation and against which the utility is not protected by insurance; for example, wear and tear, decay, obsolescence, changes in demand and requirements of public authorities, and the exhaustion of natural resources.

Dry Natural Gas Production: Marketed production less extraction loss.

Electric Utility Consumption: Gas used as fuel in electric utility plants.

Exports: Natural gas deliveries out of the continental United States and Alaska to foreign countries.

Extraction Loss: The reduction in volume of natural gas resulting from the removal of natural gas liquid constituents at natural gas processing plants.

Flared: The volume of gas burned in flares on the base site or at gas processing plants.

Gross Withdrawals: Full well stream volume, including all natural gas plant liquid and nonhydrocarbon gases, but excluding lease condensate. Also includes amounts delivered as royalty payments or consumed in field operations.

Imports: Natural gas received in the Continental United States (including Alaska) from a foreign country.

Independent: Producers: Any person who is engaged in the production or gathering of natural gas and who sells natural gas in interstate commerce for resale but who is not engaged in the transportation of natural gas (other than gathering) by pipeline in interstate commerce.

Industrial Consumption: Natural gas used by manufacturing and mining establishments for heat, power, and chemical feedstock.

Interstate Companies: Natural gas pipeline companies subject to FERC jurisdiction.

Intransit Deliveries: Redeliveries to a foreign country of foreign gas received for transportation across U.S. territory and deliveries of U.S. gas to a foreign country for transportation across its territory and redelivery to the United States.

Intransit Receipts: Receipts of foreign gas for transportation across U.S. territory and redelivery to a foreign country and redeliveries to the United States of U.S. gas transported across foreign territory.

Intrastate Companies: Companies not subject to FERC jurisdiction.

Lease and Plant Fuel: Natural gas used in well, field, lease operations and as fuel in natural gas processing plants.

Liquefied Natural Gas (LNG): Natural gas that has been liquefied by reducing its temperature to minus 260 degrees Fahrenheit at atmospheric pressure.

Marketed Production: Gross withdrawals less gas used for repressuring, quantities vented and flared, and nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations. See Explanatory Note 1 for discussion of coverage of data concerning nonhydrocarbon gases removed.

Native Gas: Gas in place at the time that a reservoir was converted to use as an underground storage reservoir as in contrast to injected gas volumes.

Natural Gas: A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous phase or solution with oil in natural underground reservoirs at reservoir conditions.

Nonhydrocarbon Gases: Typical nonhydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide, and nitrogen.

Onsystem Sales: Sales to customers where the delivery point is a point on, or directly interconnected with, a transportation, storage, and/or distribution system operated by the reporting company.

Pipeline Fuel: Gas consumed in the operation of pipelines, primarily in compressors.

Repressuring: The injection of gas into oil or gas formations to effect greater ultimate recovery.

Residential Consumption: Gas used in private dwellings, including apartments, for heating, cooking, water heating, and other household uses.

Salt Cavern Storage Field: A storage facility that is a cavern hollowed out in either a salt "bed" or "dome" formation.

Storage Additions: The volume of gas injected or otherwise added to underground natural gas or liquefied natural gas storage during the applicable reporting period.

Storage Withdrawals: Total volume of gas withdrawn from underground storage or liquefied natural gas storage during the applicable reporting period.

Supplemental Gaseous Fuels Supplies: Synthetic natural gas, propane-air, refinery gas, biomass gas, air injected for stabilization of heating content, and manufactured gas commingled and distributed with natural gas.

Synthetic Natural Gas (SNG): A manufactured product chemically similar in most respects to natural gas, that results from the conversion or reforming of petroleum hydrocarbons and may easily be substituted for or interchanged with pipeline quality natural gas.

Therm: One-hundred thousand British thermal units.

Underground Gas Storage Reservoir Capacity: Interstate company reservoir capacities are those certificated by FERC. Independent producer and intrastate company reservoir capacities are reported as developed capacity.

Vented Gas: Gas released into the air on the base site or at processing plants.

Wellhead Price: Represents the wellhead sales price, including charges for natural gas plant liquids subsequently removed from the gas, gathering and compression charges, and State production, severance, and/or similar charges.

Working (Top Storage) Gas: The volume of gas in an underground storage reservoir above the designed level of the base. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season.